

International Abstract of Surgery

SUPPLEMENTARY TO

Surgery, Gynecology and Obstetrics

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EDITOR'S COMMENT

NUMBER of unusually interesting and im portant papers concerning various patho logical conditions in the gastro intestinal tract are reviewed in this month's issue of the INTERNATIONAL ABSTRACT OF SURGERY Hurst Turner and Venables clear cut presentation of the disease picture of cancer of the colon in its early stages (p 33) emphasizes live symptoms as being constantly present-abdominal discom fort or pain and a change in the habitual action of the bowels. A symptom of particular significance is the presence of a colicky pain which dis appears with a gurgle which can be seen and felt The presence of the first two symptoms suggests at once the necessity for a careful search for blood In the authors experience occult blood is present in almost all specimens in every case of cancer of the stomach and cancer of the colon it is found rarely in uncomplicated cases of diverticulitis and never in constipation or diarrhora unaccompanied by organic disease

In a discussion of the same subject before the Royal Society of Medicine (p. 34) Wheeler calls attention to the fact that carcinoma of the colon can cause dyspeptic symptoms-painful peri stalsis of the colon or pylonic spasm immediately after taking food—and thereby lead the surgeon to concentrate his attention on the upper abdomen with the result that a colonic growth which might be detected by the sigmoidoscope is overlooked He advises palpation with the patient in the erect position while searching for growths in the hepatic and splenic flexures. In the rountgenographic search for tumors of the bowel Hodgson (p 34) recommends the use of the dual exposure. He states that the normal bowel will give a double shadow because of the double peristaltic wave but in the discased area there will be but one shadow because peristalsis is absent in this area

Monsarrat's comprehensive discussion on the surgical treatment of diverticulitis (p 30) Bol ton's thoughtful consideration of the interpretation of gastric symptoms with particular

reference to pain (p. 23), the study of Gatewood and his associates on the development of alkalosis in patients undergoing treatment for peptic under (p. 25), and Judd and Parker's analysis of 137 cases in which anastomosis between the latary and intestinal tracts was established because of obstructive jaundice (p. 40) are a few other of the many interesting papers concerning suggery of the gastro intestinal tract in this month's issue.

A second subject particularly emphasized in this month a usue by reason of the many helpful and stimulating contributions which concern it is that of tumors and diseases of bone Coley a dis cussion of the differential diagnosis of sarcoma of the long bones (p 62) and the reports of Hender son of three cases of giant-cell tumor of the upper end of the femur (p 65) of Cotton of a case of giant cell tumor of the spine (p 65) and of Baranger of two cases of acute ostcomvelitis of the spine (p 64) are of more than usual interest Coley does not oppose diagnostic biopsy of a bone tumor if a positive diagnosis cannot be made clinically. He believes however it should consist in a complete and thorough curettage down to healthy bone. He emphasizes the difficulty of differentiating certain types of bone tumor from the clinical and roentgenological findings alonenotably in cases of endothelioma and giant cell tumors-and points out the possibility that a chronic osteomy elitis (which may be difficult to differentiate from sarcoma) may exist primarily as an inflammatory process and later become

malignant
Guikes seview of the indications for, and the
results of surgical treatment of suppurative
meningitis of proj. Bagley's experimental study
of the effects of blood in the crebrospinal fluid
(p. 16) Pixtt's discussion of perspheral nerve
complications following certain irractures (p. 15)
and McIlraith Turner, and Hicks interesting
report of a streptothrix infection of the abdomen
and chest (p. 21) are a few of many other ab
stracts desering careful reading

Aur II -G maket Hound of the Foot and heck-Light or of the Coroled Arters

To the Educate of the New England Garranty Second of Nations and Strappy G. Strates — The Filtering paper was part last any has d by D. T. tak B. of Kees. N. H. and it suppressed parts seems to p. M. b. it was agranted to met. I forward it for latterium to you. Journ L. G. C. et Z. L.

During to mock fight. A supposedual tween in Tampia in Yee Hampart in the Michael 1997 I be region; F. Si excellenge at the mining of the Section of the Sec

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I senered my the mb and speeped y the blood not foulting th t th Semorthago we floors lly con rolled. But to my surprise and disoppositions. the blood mined tely began to make from the supreme the stry; and he the to m jee | if wed with pulm fight. I conpressed it agains with my th mb and began to despa of as guypa ent Whit h ould I d I I was unpomilée : ppip light reales (le antice compresson tice w the only lore to a Blow was that I be flicted? RI ld some one at by the patient oil compare the artery constabily is it the figure til nobe so hould tak plac Fountly b t might have been done but I resolved; mak another thempt first. Raui grey the mb I placed surall pure I day speeps directly ver th confic so the eg a deepew gifter compression till hitle larget poce of peops would be prepared I placed that po the first and ee w t promong the gradually larged pieces and poely praced d backward games to bear fith at II I I had filled th wound w h firm some of poage th buse of which projected ! bree b to ally The I palled E en ollers such no ner to to power firmly pon the yonge; pass g it in repeated to m the h d fac and nech I directed that the pa t should be placed us bed with hee heed mod re fy raced id thit h i Mhekpt q tatposebl darb plee feet to, he ha g lost tith to be ween here and for pounds fill sod by im h was it ed its w d wate and occasionally reces broth. W ref ily w iched him through the ngl but bird gor ered db on placed Fb Lill par

INTERNATIONAL ABSTRACT OF SURGERY

JANUARY 1929

LANDMARKS IN SURGICAL PROGRESS

By IRVING S CUTTER MD Sc D CHICAGO
Dean Northnessera University Medical S 5 of

LIGATION OF THE COMMON CAROTID-AMOS TWITCHELL

TO operative surgery the sewence of medicine is in debted for many early demonstrations of physiological truths. For centuriers interference with the circulation to the brain was considered inconsist cut with the preservation of brain function and it was not until the latter half of the eight earth century that observations began to accumulate proving that the function of the brain may be normal following ligation of one of the capiteds

Petit¹ describes the case of a patient with an aneurism at the bifurcation of the right caroud

which had undergone spontaneous cure. The patient died of apoplexy seven years afterwards, and at autopsy the carotid artery and the tumor sac were found obliterated. He says

Enfin a la place de la tumeur ci dessus decrite ul se frouvait un nœud dur oblong gros comme le noyau d'une olive et qui n avait aucune cavite à l'interieur

Hebenstreit² in his translation of Benjamin Bell's work on surgery² mentions a case in which

] a Louis P t by a 75 th 1 dine F b a on 5th b th try th x M m d bead Roy dea 5c 765 Er t Be 1 m Gottl b H beastr f 75 S J Zusat Be 1 Bell Abhandl ag d n C schwu ad d B buille 2 J



AMOS TWITCHELL

the caroud artery was wounded during an operation for the removal of a tumor. The operating surgeon immediately tied the vessel and the patient lived for many years thereafter.

Matthew Baillie'in 1789 found in a cadaver at the Windmill Street School an old aneurism of the right carotid which had be come completely filled with an organized coagulum. He says

There was no part of it which had the appearance of being recently formed and there cannot be any doubt of its having existed for a considerable time before the

being filled up with the coagulum there was no cir

Baillie's article is illustrated with a plate showing the carotid tumor completely filled with organized coagulum

Abernethy⁴ John Hunter's pupil and his suc cessor in London ligated the common carotid for hemorrhage in 1798 The patient had been gored by an ox and Abernethy first attempted to ligate the superficial vessels Finding that the blood still

Minker B. H. 26 5.7 Papel t the Wandmall Str. t School Ban. 1 Walliam and J has H. t. Earst E glish pathologist
T success of Society 1 th lamp on 1 f M die 1 a d
T has been the white Lto do 703 b g.
T h Abert Hy 764 3;

flowed he was compelled to tie the common carotid. The patient did not survive and Abernethy reports that the brain was affected. His report says

Finding that the moment I remitte I the pressure on the earoud the blood gushed out from so many orifices and in such a torrent from the bottom of the wound I resolved to pass a ligature round the trunk of the eurotif at the part where I had been compres sing it and which was about an inch below its divi This ligature I thought mucht be made to serve as the tourniquet in amountation for I could with it compress the artery so as to present the wounded parts becoming obscured by blood and by slackening it I might gain information with regard to the situation of the ruptured vessels attempting to secure the earotid arters 1 passe 1 I chind it in the manner de cribed a blunt hook with an eve in the point and having previously introduced a ligature into it I drew back the instrument and thus enclosed the artery When I compressed the vessel by tightening the knot of the lighture. I did it slowly and with a watchful attention to the sufferings of the patient. But the compression of the ligature did not seem to make the least difference in the gen eral state of the patient whilst it completely prevented the further effusion of blood

The patient died approximately thirty hours after the application of the ligature and in decribing the postmortem findings. Memethy renotes that

the brain appeared to have suffered a consider able degree of inflammation. The vessels of the pia mater appeared as if they were injected an lin many places upon the surface of the consolutions of the cerebrum there even seemed an effusion of blood producing that appearance usually termed as bloodshot There was a very considerable deposition of gelatin ous substance between the tuns a arachnoidea and the pia mater. The vessels passing through the substance of the brain though fuller than common were not particularly turgid. A considerable quantity of water of a light brown colour and lightly turbil appearance was found in the ventricles whilst the firmness of the sides of those cavities sufficiently in dicated that the collection had not precede! the accident

A Mr Fleming a British naval surgeon tied the common carotid in 1803 in a patient who had attempted suicide. This patient survived *

On November 1 1805 Sir Astley Cooper 1,68 1841 operated for aneursm of the carotid The patient died but Cooper did not give up hispe that the operation under favorable circumstances

S gual Offer at 1.0 don S post I is an grant fithus and Abe hyder beath I dong f h ptg thym of named to end, sake extract D safe
Mid Ct I I III p

might be performed. He was obliged to wait until the successful and brilliant result of a second operation in 1808 proved the feasibility of tying this sessed with safety?

Mason I Cogsuell' of Hartford Connection describes the case of a Mrs I— of Lebanon Connecticut age thirty-eight from whom he removed in November 1803 an extensive tumor involving the left sade of her neck extending from the ear to the junction of the classic with the sternum. In describing this operation Cogswell says.

I commenced the operation by a crurial incision

and after separating the skin for there was nothing

but skin to senarate 1 had to proceed through even part of the operation with the utmost caution I the external appearance was unequal the internal was much more so its processes extending themselves beneath almost every muscle and tendon in the neck hence the extreme difficulty and danger attending the operation and hence the tedious length of an hour to which it was extended After dissecting around the tumour nearly to its ba e I called the attention of the gentlemen to the situation of the caroted afters and on a careful examination we found it completely enveloped by the tumout I immediately latel it bare energied it with a broad tlat ligature tied and divided it about hall an inch from the knot. The remaining part of the operation was finished as speedily as was consistent with the safety of our patient and with but little hemorrhage and though extremely feeble she was not faint On the oth day from the operation when every thing was doing well a slight hemotrhage com menced from one of the anastomosing arteries under the forepart of the jan which in all probability the slightest compression would have controlled Dr Watsons resided three miles from her and the met senger had to extend his ride six miles further before finding him and although the hemorrhage was mod erate yet so much time had clasped before the arrival of the Doctor that the loss of blood was more than she could sustain in her leeble state and ste declashort time after The circumstances attendir this case were such as entirely to establish the practicability and safety of theiding the carotil arter)

Amos Twitchell who had graduated in medicine under Nathan Smith at Dartmouth was called upon in October 1807 during his second year of medical practice to ligate the common caroid for secondary homorrhage. Twitchell was twenty six years of age at the time and had been passing through a savere straign pend of medical

on the haing subject 4

practice at Norwich Vermont Encouraged by his mentor to persevere he had decided to move to Mariborough New Hampshire when he was called to attend what provide to be his most fa mous case. His report was not published until 1843 when it appeared in the first volume of the short hived. New England Quarterly, Journal of Medicine and Surgery. I Twitchell's report was sent to the editors of the Journal by George C. Shattuck Jr. the son of George Cheyne Shattuck. M. D., who had been a schoolmate of I witchell's at Dartmouth.

Twitchell according to his own statement was ignorant of antecedent ligations of the carolid The general voice of surgery was against such a procedure. Had heread the report of Aberneth's case he could have held but little hope for his patient's recovery. This report typities the re sourceful young surgeon who was willing to con travene accepted surgical principles in the hope that life might be preserved. The report itself is modest in the extreme. Subsequent to the ligation Twitchell's patient made an uneventful recovery

Twitchell's nationt made an uneventful recovery Amos Twitchell was born April 14 178r in the shadow of old Monadnock. Mountain of the Great Spirit The village of his birth Dublin nestles among the beautiful hills of southern New Hampshire In 1708 when seventeen years of age be entered Dartmouth College graduating A B in 180 AM and MB in 1805 After two years of practice at Norwich Vermont, he removed to Marlborough New Hampshire thence in 1810 to Keene New Hampshire where his death occurred May 6 1850 He was easily the leading surgeon in middle New England performing all of the major surgical operations of the day noted for his modesty his quiet home life and his intense devotion to surgery Numerous calls to accent professorships in medical schools were declined because of his active practice Among his surgical achievements may be mentioned trephining of the tibia for abscess in the bone !

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Gloja F Various Methods of Renairing Wounds of the Skull and the Report of a Case of Lx tensive Crantoplasty by Yeans of an Auto plastic Osteoperiosteal Flap from the Tibla (Una guardo as van procediments de otturazione di brecce craniche e con i lerazioni intorno ad un caso di estesa eramoplastica mediante innesto osteo periosico autor lastico di Inbia) Arch stal de chir 1028 XT: 147

Gioja first reviews the literature on cramophists Defects in the bones of the skull have been repaired with metallic plates ivery celluloid rubber dead sterilized bone decalcified bone calcium pastes cartilage and esteoplastic flaps. The best results has e been obtained by autoplastic bone grafting

The case reported by the author was that of a man thirty two years of age who sustained a fracture of the skull and un injury of the cerebral cortex involving the speech center as the result of being struck in the left temporopanetal region by the handle of a piece of machinery. The roentgenogram showed an extensive fracture with bits of bone buried in the bone cortex. On account of objections to surgical intervention on the part of the patient's family operation was delayed until nine days after the secilent. The patient was then appretie and wound healing had begun In the first operation the margins of the wound were freshene i and the bone fragments remove I from the brain Five days later the opening in the skull was repaire I with an osteo periosteal flan from the tibia. The operations were performed under novocam anæsthesia and complaint of pain was made only when the persosteum was

Six months after the operation the nationt showed some aphasia and slight paresis of the inferior facial and hypoglassal nerves. The aphasia was decreas ing however and he had returned to his work

In discussing loss of substance of the skull before the Public Health Service Tuffier Faure and Morestin agreed that persons subjected to cramoplasty rarely recover completely normal function and are therefore entitled to some compensation. They agreed also that it is often impossible to tell the exact degree of the bone lesion for one or more years AUDREY & MORGEY M D after the operation

ttuet P C Recent Fractures of the Nose (Fra tures récentes du nes) J de chie 1928 xeri 640

Three pathogromonic signs of fracture of the nose are nasal deformity traumatic subcutaneous em physems of the nose and hamatoms of the septum

The object of treatment of nasal fractures is to restore not only the form of the nose but also the permeability of the foser. The treatment must be given early because fractures of the nose become consolidated in from five to ten days. Unneces an pressure on the delicate mucous membrane must be avoided As a sule reduction of the fracture and tamponing are sufficient. If the mucous membrane has been torn the nasal fossie must be kept under observation after the removal of the tampon I adhesions form they should be destroyed by disthermic coagulation as they may un lergo ci atticul retraction and deform the lininge of the nose or inter fere with permeability. In cases of fracture associate! with marked displacement and especially those with furntion of the qualifungular cartilage the firstion must be maintained for some time When temponing alone is maintained for a long time it tends to spread the vault and wilen the brid col the nose. This ten tency must therefore be overcome by the use of some form of external fixation in addi tion to the tampon The author employs a simple apparatus resembling a saidle of copper whi h fits over the nose and to kept in place by a band of ad herive tape applied horizontally and another ban l applied vertically from the forehead. A thin layer of cotton is placed beneath it to protect the skin Martin prefers intranasal prostheres and those he has designed are extremely ingenious but in the author's opinion they are not necessary in simple

In complicated cases particularly those in which the fracture irridities to the superior matilia and the vault of the palate a point of support must be found outside the nose Darci sac obtains such a point by applying an aviator's helmet of plaster In very complicated cales a system of phabe levers may be attached to this believe to furnit intranasat extranasat or maxillo lental prostheses as dested

The article contains illustrations showing the different types of fracture of the pose MOREL C MORGA MD

Terracol J Ostcomy elitis of the Superior Maxilla in the Aursing Infant (L ist omy flite du mavil laire supérie e ct ex le nourt on) Ar h nter al de larvaged 1028 XT IV 32

The author first reviews the embryology of the maxillary sinus and its anatomy in the newborn

He states that ostcomy entrs of the superior maxilla in the infant is rare I angel found 7 cases among 15 000 patients Terracol has seen only 2 cases file believes that as a rule the portal of entry of the infection is the mouth but that in some cases may be the antrum According to Broca the zone growth of the teeth plays a part similar to that played by the epiphyseal cartilage in the long bones. The gingvitts associated with eruption of the teeth is followed by follicultus, and the follicultus by ostetis the whole bone soon becoming involved.

In the beginning the child may cry and refuse to nurse but there are no localizing signs. Soon how ever there is a unilateral swelling of the face asso ciated frequently with closure of the eye infiltration of the eyelid and chemosis The skin of the jaw becomes red and the veins dilate Occasionally the inflammation suggests crysipelas Palpation is very painful and the tissues are hot and hard There is a marked contrast between the half of the palate that is normal and the half that is swollen Fluctuation is soon noted and a fistula may form at the edge of the tooth socket at the inner angle of the eve or in the edge of the orbit If it is formed at the edge of the tooth socket the germ of the tooth may be expelled Frequently two teeth are lost the canine and the premolar The fistula rarely forms in the vault of the palate. There is always a nasal discharge

the palate. There is always a nassal discharge As in other forms of osteomyeluis, the acute phase is succeeded by a chronic phase. Pus and sequestra are discharged and probing reveals denuded bone. Feeding is difficult because it is painful and the osteomyeluis may be followed by septicemia with

multiple visceral localizations

Operation should be performed as soon as the diagnosis is made. The principles to he followed are the same as for osteomyelitis elsewhere-incision of the soft parts and trephining of the bone. If a fistula has already formed the 5km opening should be enlarged the bone curetted fungosities or se questra removed and drainage established. If a fistula has not formed the operation should be performed through the mouth in order that dis figurement may be avoided. Without any anasthesia or with only slight infiltration of the mucous mem brane with a per cent novocain an incision should be made down to the bone and the bone trephined and curetted. The operation should be performed rapidly Care must be taken not to curette too deeply as it is impossible to tell the exact extent of the lesion in young spongy bone and there is danger of bringing about a blood infection curettage the wall should be touched with a weak solution of zinc chloride and the cavity drained Dramage may be made through the nose times further collections of pus are formed. These are especially apt to occur beneath the orbit and must be incised Cicatrization should be slow and should occur from the bottom of the wound toward the surface Vaccines may be used as a supplement to the operative measures. The late results are good

In all of Broca's cases the face remained perfectly symmetrical. The vault of the palate and the nasal fossæ also remained normal in shape but as the

teeth corresponding to the expelled tooth germs were lacking a prosthesis was necessary later AUDREY G. MORGAN M.D.

Duke Elder W. S. Ultraviolet Light in the Treat ment of Ophthalmic Disease Brit J. Ophth 1918 xu. 289

This article is a report of the results obtained in 425 cases of opththalmic disease which were treated by general and local phototherapy at the Royal

London Ophthalmic Hospital

Clinically the most obvious effect of radiation is the production of an erythema in the skin an increase in the bactericidal power of the blood a slight erythrocytosis, an increase in the hemoglobin and platelets a decrease in the polymorphonuclear cells and an increase in the lymphocytes eosimophiles

eakcum phosphorus and iron.
The great majority of cases respond within a reasonably narrow margin but the site of the lesson and the individual variation of each patient render a coutine design based on a standard test inetyedient and unsafe. The best basis for dosage is the ery thema of the skin and the bactericidal power of the

blood which seem to be correlated.

In the treatment the body is divided into three areas the chest and front of the abdomen the back and the legs. Each of these is radiated on alternate sittings the dose being gradually increased. The vapor lump is used at first and then the carbon are Twenty freatments are given and after a rest of from two to three weeks they are repeated if neces

Not only the effect on the eye condition but also the general tonic effect is very marked. The patient feels better and stronger gains weight and sleeps better the appetite increases and the general immunity of the body is raised. The most marked improvement is noted in children.

The dangers of the treatment are overdosage and

idiosyncrasy of the patient

Overdosage causes general depression drowsness fatigue loss of energy and appetite headache nau sea irritability and insomina. Patients with a lowbood pressure require smaller doses than others and show the signs of overdosage quickly. The presence of a fever is a cantia indication to the treatment During mensitruation the doses must be reduced if signs of overdosage appear.

An erythema of high degree is associated with more discomfort than danger healing occurs with out scaring. No sequelæ such as follow \ray dermatitis have been reported. There is no danger of epithelioma despite the finding of active mitosis in the basal layers of the skin.

The eyes should be protected at all times because the ultraviolet light may cause a painful photoph thalmia scotomata cataract or conjunctivitis

The effects of ultraviolet light treatment are best demonstrated in the chronic and intractable cases of

iridocyclitis. The pain is relieved the eye becomes white cornerl precipitates clear up pupillary ail hesions break the vitreous clears and vision im proves. In tuberculosis the average response a good but in syphilis the response is always poor

The author believes that most failures of the treat ment are ilue to excessive dosage. In the cases of choroulitis scientis and kerantis reviewed the results were generally good even when the condition was severe and chronic. In the cases of interstitual keratitis the ultraviolet light was of no herefit except that it exerted a tonic effect on the general health Corneal ulcers responded better to local pradiation than to the general light baths to im provement was noted in corneal opicities. Recur reat hordcola tuberculous daervocystitis and the conjunctivitis associated with debilitating disease curvey and hav fever reacted well to general light treatment LIKELL RECORD WID

Barkan O (Joquet's Canal Visible in the Living with Observations of Hamorrhage into Clo quet a Canal leck Ophil 1918 lvn tor

Barkan reports a case in which examination rescaled a translucent extinder al canal with a wide anterior end lying behind the posterior lens surface and running backwar i to the lower portion of the uptic di k vo vestige of letal elements could be dis cerned He reports also two cases of hemperhage into Cloquet's canal In a precent up

Tassman 1 5 The Leoteins of the Lens and Their Chemical Changes in the Pathogenesis of Sentle Cataract A ch Ophih 1028 1 1 361

While many new studies on cataract have been made in recent years there is still much to be learned regarding the various chemical changes taking place in the proteins of the lens. It is now known how ever that the total proteins constitute about 35 per cent of the lens mass and consist of a soluble and an insoluble portion. The soluble portion makes up to per cent of the total mass and the insoluble por tion 45 per cent. The soluble portion contains alpha crystallin beta crystallin and an albumin The alpha crystallin forms 37 per cent the beta crystallin 63 per cent and the albumin a per cent of the soluble protein. The alpha crystallin is found mainly in the external or cortical part of the lens and the beta erystallin mostly in the more central part. The albumin shows no noticeable distribution The insoluble protein or framework is found to increase from within outward

I ens proteins like other proteins yield a positive reaction with sodium nitroprusside and ammonia In this reaction the beta crystallin a stronger than the alpha crystallin and the insoluble albuminoid is negative The reaction is said to depend upon the presence of cystem Its intensity decreases as the two crystallins vanish from the lens until in mature cataracts it becomes entirely absent. This seems to suggest that opacities follow a reduction of the so uble crystallins but our knowledge regarding the

relationship of the chemical changes in the proteins of the lens to the pathogenesis of senile cataract is still incomplete Capace R McAlling M D

NOSE AND STRUSES

Glover J A Some Observations on \asopharyn gest & pidemics in Public Schools Ir c key S e Wed Lond 1928 ext 1593

Clover states that over 80 per cent of the illnesses occurring in chool children are transmitted by dmplet infection. He believes that some of the in crease of suckness in the public schools is apparent rather than real being explained by greater atten tion to minor febricula. The true increase he at tributes to the tactia cel prevalence of influenza the aftermath of the great epidemic of 1919 and the in crease I demand for public chool education which has led to overcrow link

The most common droplet infections ar influenza feverish colds chills pyrexiss of unknown origin and tonsilhtis. The regular infectious di ea es are com paraterely infrequent. The author di cusses the incidence bacteriologi al finilings and incidence of pocumonia otitis media and tun illitis

In the prophylaxis vaccines are uncertain. There I some evidence however that they may diminish the incidence of complications. If u ed they hould be administered Eclore the danger period 1 e not later than November

intensive prophylaxis other than the use of vaccines should include (t) special efforts to pre sent children from ecturning to school after the holidays infected with influenza or febricula (2) tecords of the temperature for three weeks after their return (3) immediate t olation of all children with pyrevia and cataeth (4) the forbidding of work before breaklast for at least the first six weeks of the term (s) a rule that all hot baths and showers taken during the day or after games should be followed by cold shower (6) the prevention of chilling during games and (7) there ised provision for dry clothing Infection takes place mainly in sleeping quarters Therefore proper spacing out of the beds and thorough cross ventilation in doruntories are of poramount importance. The author coes instances of cross infection due to the proximity of heds and reviews the stan fards of wall space floor space

and cubs space land do in by the Royal Commi NECK

sion Board of Education

Mosser W B The Effect of lodine and Thyrold Feeding on the Thyroid Gland An Expert

No ser studied the effects of 10 line and thurs if feeding on the thy rold gland in three groups of dogs In the experiments on the first group 10 minims of Lugol's solution were fe'l for any weeks and speci mens of the thy road s ere taken just before and after

the feeding and again several months after the ter mination of the feeding

In the experiments on the se ond group thyroid extract was fed in increasing quantities until signs of hiperthyroidism appeared and iodine was then given for six weeks. Specimens of the thyroid gland were obtained before and after the thyroid feeding at the end of the iodine period and three months later.

In the experiments on the third group thyroid extract was given as in those on the second group and continued during the six weeks of jodine medication

The specimens of the first group obtained after the iodice feeding showed distortion of the actin by coloid and distinct flattening of the cell lining. The same changes were found in the sections removed several months later.

The pictures in the second and third group were identical. The sections removed after the termination of the third feeding were similar to those in Coup 1 after iodine feeding and after the subsequent iodine period the findings were still practically unchanged. Three months later the collect was plasm was variodated changes interpreted as indicating exhaustion. Similar observations can be made in patients who have received iodine for a prolonged period.

The author advances the theory that sodine stimulates the thyould to greater colloid production which flattens the cells and temporarily decreases thyroun production (clinical improvement) that on prolonged medication the cells re adjust themselves and that feally in the stitle of chiastion the cells through the production of thyroun is resumed and that finally in the stitle of chiastion the cells through control of the cells through the still continue to the cells through the cells the cells through the cells the cells through the cells the cells through the cell

Doederlein G Experimental Hyperthyroldism and the Effect on the Reproductive Function and the Progeny (Experimenteller Hyperthyrod ismus und seine Wirkner auf Fortpflanzung und Nachkommenschaft) Arch f Gynack 19 S exxuit 68

The author states that in addition to the local mechanical conditions for fertilization and for pres ervation of the developing embryo the normal course of the processes of reproduction is dependent upon a number of extragenital factors exogenic factors of importance in embryological development are climate (seasonat limitation of fertility in the polar regions etc.) nutrition (over nourishment under nourishment lack of vitamins) poisons (alcoholism) and infectious diseases (ty phoid fever malaria etc.) Chief among the endogenic factors is the function of the endocrine glands The directly stimulating influence of the suprarenal in the regulation of spermatogenesis and of the hypophysis on ovarian function are well known Less easily understood are the relations between the thyroid and the germinal organs Hyperfunction (Basedow's disease) and hypofunc tion (myxædema thyroidectomy) decrease fertility

According to Scylandes hyperthymization has the same effect but the influence of hypofunction or extrapation of the thymus has not been determined. The relation of the parathyroids the epiphyses and

the pancreas on reproduction is also unknown Experimental study carried on by the usual meth ods of resection or extirpation on the one hand and transplantation of the different endocrine organs on the other has failed in many directions partly be cause the operative removal was neutralized by the presence of accessory organs or was followed by the death of the experimental animal and partly because with the exception of the germinal organs them selves-the specific influence of the transplanted organ ceased with the transplantation. As the result of the recent successful preparation of certain hormones in pure form especially the hormone of the thyroid at is now possible even if the full effect of the living organ is not attained to determine at least partially the qualitative and quantitative effect of the different secretions on the processes of reproduction Despite the variation in the sensitive ity of different animals even those of the same species to the injection of these preparations it is nevertheless possible to control the specific effect by proper dosage

Through the mating of animals with differing grades of hyperthyroidism Doederlein sought to determine the effect of hyperthyroidism upon the capacity for fertilizing and conceiving the course of pregnancy and labor the number and character of the progeny and the reversibility of the hyper theroid state. Guinea pigs were chosen for these investigations because of the length of their period of gestation-sixty five days-which allowed longer continued administration of small doses than would have been possible in the cases of rabbits whose gestation period is only thirty days. As a rule from o os to o 1 gm of thyroidin was administered every two days but sometimes daily by means of a glass tube introduced into the pharynx During the period of observation the animals were given a diet par ticularly rich in vitamins and the body weights and the carbon dioxide content of the expired air were recorded The observations were made on sixty animals some of which were under study for as long as ten months

Control studies of untreated animals showed in both seres a temporary decrease in the body weight with an initial decrease and subsequent increase in the cuthon dound the production during the periods of increased sexual activity. In the case of pregnant animals they revealed a decided increase in the body weight with marked variations in the production of cuthon doubted during the second half of pregnancy and an increase in the carbon doubted production during the last weeks corresponding to the increased demands of the developing fetus and the excretion of the products of fetal metabolism by the mother

An increase in the dosage of thyroidin caused a rapid decrease in weight and later intensified oxida tion with increased excretion of carbon dioxide

When the increase in the excretion of carbon dixede amounted to about 50 per cent the induced byper thyroidism was regarded as of medium severe grade A male guinea pig which was given doses sufficient to produce this condition for seventeen days proved to be infertile having been observed in successful copulation with two females who were later immediately impregnated by untreated males. In the case of this male and those of two other males treated in the same way the decrease in the excretion of carbon dioxide which is characteristic of normal animals during the perio I of heightened sexual activity was absent. When the administration of thereof in was stopped conditions teturned to normal proxing that the injury to the sexual function caused by byper thyroidism is reversible

The author concludes that hyperthy roidism in the male is capable of injuring the reproductive function leading either to infertility or to the begetting of physically weak offspring

In the case of femile animals the effect of the throadin was even more pronounced hall the amount resulting in about the same increase in car more accordance with the full amount in males. The power of conception how ever was not docreased. When the male had not received the treatment the young were lotte with mid hyperth prolum. When the male how the mid had not been careful to the mid the prolumnary of the fetting the process of the mid the prolumnary of the fetting the process of the mid the prolumnary of the prolumnary of the mid the prolumnary of the prolumnary of

Continual trestment with large do as led to fail use of conception whereas after the administration of thy not in was discontinued the female concerned immediately, upon being paired with the same male Continuation of the mediation during pregamely resulted in abortion or if the gestation was continued to term in a high puerperal mortality.

These expensions demonstrate that the offsping of byperthy road mothers are born with an increased thyroid function but that as not be used of the parent animals that hyperthy roading the program that the program by the artifactual induced hyperthy roading is the program by the artifactual induced hyperthy roading is the program by the artifactual induced hyperthy roading is the program of the

In conclusion the author states that on account of the other injunuous effects of large does of this much hormonal sterilization by means of the fertility limiting effect of this prepriation is limpricised but that a combination of thy modal with pancteatic or follocular hormone might prove of value

Brown R G Some Varieties of Skin Flaps in Connection with Cares of Total and Hertil Larynges tomies From Roy Soc Med Lond 10278 xxx 1400

The author reports three cases in which luvin gectomy was performed withins improved technique. In total lary ngectomy a quadrilateral skin flap with inclusion of the platysma fibers was used with

excellent results

In the prelimining tracheotomy for total large gectomy a skin flap was slid deep down in the neck wound and fixed there by matters sutures. This

procedure gave a cleaner wound
I un a cuse of complete postitubilities estenois of the
larging the hauthor reconstructed the larging first
her performed a hermilarging closely in order to get
her do of the secre tissue by turning in a sun flap and
two months later he covered the anterior wall with
slide flags A good result un so bilaging!

MANFORD R MALTE M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

The Aftermath of Head Injuries \ | oek State J 1/ 1928 xxvm 775 Discussion-The Aftermath of Head Peet M M 1 1 ork State J M 1928 xxvm 777 Injuries

ECKEL states that traumatic epilepsy develops in about 5 per cent of cases of severe head injury. It is claimed by many that the determining factor is a hereditary or constitutional predisposition to nerv ous instability and there seems to be abundant evidence that the predisposition is more important than the maury itself. It is doubtful if epileps, ever occurs following a head injury except when such a predisposition exists

No conclusive case of brain tumor following a head

injury has been reported

In syphilis of the central nervous system the light ing up or aggravation of symptoms must occur within a few days after the injury to have any casual

relationship to it True delayed traumatic epilepsy shows some symptoms directly after the injury and develops within ten days. Traumatic meningitis may follow a skull fracture within a period ranging from

days to months The role of trauma as a cause of definite mental

disease is debatable The symptoms of functional nervous disorders appear after a few days or weeks. They are usually classed as traumatic neurasthenia traumatic neurosis or traumatic hysteria. As the complaints are the same regardless of the patient s age or race or the degree of the injury Dana designates the clinical picture in these cases as the head wound syn The symptoms are headache and dizziness irritability apathy fatigue and ear noises followed later by tremor vasomotor flushing paloutation abnormalities in the gait and numbriess. In some cases palsies or hemi an esthesia develops. There appears to be an inverse relationship between the severity of the symptoms and the mjury As a rute the patient is of a neurotic make up Some of the worst cases are the result of lear alone

In addition to the usual careful neurological tests including examination of the eve grounds and spinal fluid \ ray examination and encephalography are in licated to determine the presence of organic disease When organic injury is found it is usualty impossible to modify the signs unless they are pro duced by a condition which can be reheared by surgical or medicinal measures. In cases with no organic signs the true nature of the condition should be explained to the patient and an effort made to obtain early compensation for the injury

If the patient receives compensation early many later symptoms may be avoided Additional aids in the treatment are suggestion electricity massage and heat The patient should be encouraged to work. If individual attention and care are given to each case nearly all such patients can be restored to relatively normal health

PEET also accepts the theory that in many cases the attack of epilepsy is the cause of the head injury rather than the reverse He states that the question of brain tumor as a result of injury is still an open one as a number of tumors have been found immediately beneath an area of old trauma

MAURICE MEYERS M D

Rio Hortega P The Histological Structure of the Pineal Gland (Constitución histológica de la glandula pineal) Prog de la elin Madrid 1928 XVI 178

The author has examined the pineal glands of children adolescents and adults and the pineri glands of cattle The report of his findings is sup

plemented by numerous photomicrographs
Various investigators have described three kinds of cells in the pineal gland-nerve cells neuroglia cells and pineal or specific parenchymatous cellsbut the author found only neurolgia and parenchy matous cells and concludes that there are few if any true nerve cells. He states that the lobules of the gland are made up of the specific parenchymatous cells which constitute the greater part of the gland and a smaller number of neuroglia cells scattered among the parenchy matous cells. The parenchy matous cells are stellate with smooth flexible processes which divide and frequently end in key shaped enlargements at the edge of the lobules or at the end of the adventitia of the vessels

The neuroglia cells are like the astrocytes of neurogha elsewhere they stain in the same way and generally show filiform processes with implantation on the vessels. The amount of neuroglia differs greath, in different individuals even under normal conditions The number of neuroglia cells in proper tion to the number of parench) matous cells is smaller in the pineal gland than in the cerebrum. The num ber of neurogita cells is greater in the extraglandular zones that is at the periphery of the true paren chyma where the intermingling of the nerve and neuroglia fibers forms complicated plexuses

On silver staining several types of neuroglia cells are found in the human pineal gland. The gliacytes of the pineal gland are closely connected with the They form very complex perivascular VESSE18 systems

In addition to the ordinary gliacytes which are distinctly fibrous in character there is another

operated upon)

I gruncle of the face or no e

grounts from which appears to be connected with the function of the gland. These are shown very clearly by the author's method of sitter carbonite staining. They are scattered pregularly through the gland pyrach's man and are often particularly numer out at the margins of the lobes. They were found for large numbers in the pincel leand of a young man

who died of cerebral timor. The quantistate differences in the neurogha are og cretice on normally that it is difficult to any just when hyperplays begins. Changes occur in the glant in a trious diseases but they do not aterm to plant in a trious diseases but they do not aterm to diffine foldulir penilolular endolubular or extra lobular or occur in plaques. Unstructure of the control of the plaques. It apressaye changes in the neuroghas fibres may be maufacted by ning shaped or key shaped makes of libers or by hydmargian of the fibre. Brain vanil re embling the sandy controlous fibres or by my difficult of the control of the con

Horras G and Halaht C A Study of the Recession of Choked Disks Following Operations for Brain Tumoe to h Oah h 1028 hu 467

Horrax null Haighl studied the recession of papil incidems in 100 patients operated upon for brain fumor. They found the average recession was least (63,3 per cent) in the cases of supratentorial tumor in which only a decompression authout removal of the reoptism was performed, and was greated for which the neoplasm was completely or extensively removed.

From the point of view of the location of the lumor the recession was greatest (of per cent) in the cases of tumors of the certeblopontale angle most of which were acoustic neuromata. From the point of view of the pathological type of tumor little definite information could be obtained.

I to M Dismore MD

Guteke N. The Suegleal Treatment of Meningitis Following Traumata and Other Infections (Die chautgische Behandlung der Meningitis im Gefolge von Traumen and sinderen Infektionen) 52 T f d deitch Ger f Chr. Bertha 1938

Surgoons in contrast to otorhinologists usually have luttle to do with meningius in times of peace and comparatively few reports on acute supportative meningitis have appeared in the testeature. Many of the too large surgual clinics to which the author sent an inquiry regarding the results of the surgical treat ment of supportative meningitis had had no cases Moreover Guldes on orm material that of the Jens surgical clinic is not very large. Among 70 444 miles of the mental in the diffuse supportative meningitis. All of those with serious meningitis were cared but of those with supportative meningitis as died. The case of diffuse supportative meningitis serie grouped according to the Cause of the condition as follows.

Skull Incourse

Operation for brain tumor

Operation for brain tumor

Ichonous I rain prolapse and cerebro-punal fluid

fi tula

Perforation of absects of the cerebellum

1 olotoperathe empyema (cystic tumor)

1 clatefue | energhablocte or mentagoccie (c.g.e)

O-teomyelass of the pine There were also a number of cases of spinal menin gitis in these a cure resulted. Of 34 patients with otogenic meningitis 33 died in spite of operative in tervention In the roy eases of skull fracture admit ted in the period from 1920 to 1928 there were is efeaths a mortality of to 8 per cent In the si cases of fracture of the vault of the eranium there were to deaths a mortality of 12 per cent. One (2 per cent) of the deaths was due to meningitis In the 45 cases of fracture of the base of the skull there were ri deaths a mortality of 25 per cent. In this group also 1 (2 per cent) of the deaths was due to mening; tis One case of meningitis was cured the incidence of cure being therefore 4 per cent. In the 11 cases of fracture of both the vault and the base of the skull there were 5 deaths a mortality of 45 per eenf and

(r\$ per eent) of the cleaths were due to meningitis The author briefly reviews the anatomy of the arachnoid or subarachnoid space which is of particu lar Interest to the surgeon This space is not uni form but presents besides numerous mesh forms lions narrow and wide spaces. At the base are the eisterns the largest of which the eisterna occipitomedullaris is from 1 to 15 cm deep The spina cord space is divided by the ligamentum denticula tum into a wider anterior and a narrower posterior space The posterior space is particularly narrow in ats thoracic portion so that arrigation is hardly pos sible When colored solutions are injected the dye does not appear in the region of the occipital lobe The circulation of the eerebrospinal fluid which takes its origin from the chonoid plexus and the epi thehal covering of the ventricle of the brain is not rapid and uniform it is influenced by the movements of the pulse and respiration from which it receives a motion resembling that of a pendulum. The move ments of the head also have a pumping effect upon it These facts explain the frequent spread of meningitis by leans and the cap fike distribution of the condition without involvement of the occipital lobe. The spread of traumatic meningitis depends also upon other circumstances such as the occurrence of ordema and prolapse of the brain According to whether one or the other of these occurs a conventy meningitis or a basilar meningiti develops. The latter is more frequent after gunshot injuries In these conditions also the disease often spreads by leaps sometimes oc curring for example on the side opposite that of the

Meninguits of the spinal cord develops most often posteriorly in the narrow part. When it develops an teriorly it is less severe Meaningths must be divided first into the circum scribed and the diffuse forms. Hematogenic meaning sits is most often diffuse. The surgeon's concerned chiefly with the meningitis which is spread by continuity or arises from contact (traums suppuration).

Cases of fracture of the base of the skull are of particular interest their mortality from meningitis

being high
The author does not go into details as to the diagnoss and clinical course. He states that the prognoss is uncertain as the severest forms often reitogress spontaneously whereas midder forms often reitogress spontaneously whereas midder forms often end it attle. Vicroever the demonstration of the presence of certain micro organisms is not of definite poper mostic significance. The finding of streptococcy is regarded as more unfavorable than the finding of staphylococc and the pneumococcus is very moth leared. However even streptococcie meningitis may terminate in recovery.

In the treatment the two chief aims are to remove the source of the suppuration and to combat the spreading inflammation. The first can be attempted only when a known primary focus is present that is in the cases in which the tife tion occurred by exten sion and rarely in those in which it tool place by the blood stream. To combat the progre s of the inflam mation it is necessary to operate at the beginning of the meningitis. When the fract re is exten ive it is difficult to decide how far to go Voss of Frankfort advised going as far as possible with the object of prophylaxis but the author is more conservative The extension of meningities by leaps makes the decision as to the of erative indications very difficult Between two pus loci there may be healthy bone and healthy dura Frequently the decision as to whether other foct are present is aided by examination of the cerebrospmal fluid Punctures carried out from the margin of the bone do not always hit the pus focus In ome ca es the progress of the meningities is success fully stemmed whereas in others only local benefit 1 obtained and the general meningitis progresses. If the meningitis cannot be otherwise controlled lum har suboccipital or ventricle puncture is to be con sidered Immediate improvement often follows such a procedure. This is due not to the removal of bac. teria or toxins but to the relief of pressure and not so much to the mechanical consequences of the latter a to the improvement in the ci culation through the mjured partions of the brain by which fresh defen sive material is supplied. It must be borne in mind howe er that the puncture is not without danger It can change a local into a generalized meningita and may be followed by collapse fatal hymorrhages or abscess perforation. Hence extrems care is nece sary The puncture should be carried out only with the patient in the prone position and should be con trolled by measurements of pressure Particular care is indicated if the medulla is pressed downward (sud den lowering of pressure)

Opinions as to the value of puncture are still divergent krause speaks of disastrous results Garre

beheves that in one of his cases he effected a cure by puncture The procedure seems to have been bene ficial in a number of cases particularly when it was captionsly repeated There is lack of agreement also as to whether suboccipital or lumbar paneture is preferable Ventrale puncture can be considered only 17 the case of a closed ventricle. If the puncture has only a temporary effect dramage should be in creased by exposing the cisterns but even when this as done the occupital portion of the brain will still remain shut off I ollowing this procedure al o the re sults depend mainly upon the relief of pres ure since dramage is effectual only in cases of thin pus that is early cases. Drainage of the ventricle remains as a last and desperate remedy Lammectomy of the second to the third lumbar vertebra may be added to drainage and the exposed dura then widely opened In this procedure also there is danger of collap e and of extension of the infection. The openings thus made are ineffective after four or five days but some times as is z of the author's 8 cases in which this treatment was used the temporary drainage is suffi cient Guleke regards irrigations as madvisable as they do not reach all parts and are not without dan ger having been followed by irritation and paralysis On the other hand in epidemic and streptococcus meningity they have sometimes been followed by improvement. The author opposes strigation with antiseptics even more strongly than irrigation with physiological solutions With regard to the value of serotherapy be as skeptical although there are re ports of cures in cases of epidemic meningitis and even in cases of streptoroccus meningitis from the use of streptococcus anti erum. He has little to say also with regard to vaccine therapy

Summing up Gulele holds that the most important factors in the treatment of meningitis are complete quiet and removal of the primary focus. Next in importance are lumbar planting a separated if necessity and draunge. He is very skeptical as to the value of irrigations and cremoth rapeatic remedies also as to undough the still uses.

I tast statutes are repos ible In all Or fro per early of 32 cases of mening the ha e-been reported cured but in the author's opinion this percentage is to high, Golder refers again to his own material and tast and the statute of the wound for monal of the wound track, and closure of the wound as far as possible conservation in operating on the meaning and appropriate treatment of furnicles and other pass for from which meningits can ongs and where pass for from which meningits can ongs and where pass for from which meningits can ongs.

Following Guleke's report Z4x6F discusses meaingui from the standpoint of the otologist. His conclusions are based on themty year experience in
multary and civil practice inquiries made of others
and I soo cases of memirguts including 150 of nesal
and 160 of pharynesal origin.

Asing first defines meningitis and ealls attention to the fact that not every cerebro panal hydrogs is inflammatory. I uncture may reveal increased pressure but no intruher changes on the cerebrory and fluid such as an aucrease in cells or protein. On the desired of the cells o

Zange excludes from his discussion meningitis not due to infection. He deal peincipally with two forms suppuratese meningitis legitining suddenly or insidiously in which the cerebrospenal fluid does not necessatily contain nus but always contains poly morphonuclear cells and scrous meningstes which may go on to the suppurative form He states that the diagnosis is not always simple even the experi enced otologist may crr A differential diagnosis between circum cribed and generalized meningitis is not always possible even after trephination. Never theless the results of teentment depend upon early diagnosis since meningitis can be influenced by may of the primary focus only in the early stage The value of chemotherany and serotherany as still cloubtful The wethdrawal of cerebro penal flui I has its dangers although in some clinics it has increased the number of cures. Urotropun helps decidedly in many cases A company on of the statistics before and after its use showed that it has increa ed the number of cures by about half Bier a passive he puramia applied to the neck sometimes has a favor able influence particularly after the withdrawal of cerebrospinal fluid. The chief essential bowever is exclusion of the primary focus and of the route by which the infection travels as completely and as early as possible. For this an exact knowledge of the routes is necessary. These routes are outline 1 by Jange as follows

THE SITES AND ROUTES OF INFECTION OF MERTIGIES ORIGINATING IN THE FAR NOSE OF TRANSPORT CACHT ING SIMULTANEOUS ENJURY TO THE BASE OF THE SALLE (FRAC

TURE STAR WOUND OR CUNSHOT WOUND)

A. With origin in the ear (mid lie ear with its accessory cavities in the mistoid and the rest of the petrous portion of the temporal bone)

I In acute and chronic suppurations of the middle car
σ To the middle cranial fossa through (1) the trg
men tympan (2) the ante sor or posterior base of the
tip of the petrous portion of the temporal bone (max
the chivaly in osteomychitis of this part of the bone

in the posterior cansul for a (r) directly throw in the bone in front of or behind the transversion of the posterior can be a superior control of a bone front of the posterior control (a) indirectly by way of an indirections sustained by the posterior can be a superior control of the inner car joints internal language to be obtained by the posterior can be a superior control of the posterior control of the posterior can be a superior can be

II With simultaneous fracture of the base of the sky? modving the ear The infection preads by way of the Lony projections of the la e of the kull mo throught through the tegmen tympani and along the antroce margin of the petrous portion of the temporal bose in front of the inner ear and more rarely through the ma toid groce and po terior cranial fossa (behin | the inner ear) or through the tegmen tympani and inner ear (cothlea and laby rinth) into the inner auditory meatur To present errors in diagnosis at is parti ularly important to note that in pite of the fact that in all 3 ca es evere ds turbances of the inner ext floss of hearing vertigo with systagmus etc.) are regularly present, the causes may be not in the inner ear but behind the laby mith (tear e ntu in hymorri age from the eighth pene) III With infected punrture wounds or gun hot in june. The route of infection is either the puncture or gun fot track injuring the cramum or inner ear or projectims from the track

With origin in the nose and its accessors carities

I in acute and chronic supportations of the go e and

acce ony mt at cavit es

a In infections (furuncle) of the external nose (an)

ng et lip) from a ending thrombophi hits by say of the venous plenues and sinues of the lace of the shall (caverno us sinus thrombo is etc) b In pure uppurations of the inner no e through the lama a cobross by way of the lymph or blood we if

(extremely eare)

« In suppurations of the acce ony cavitie through
the fontal bone on the roof of the ethmoid cavity of
themoidal inus or through the lamina cultorsa (the
lattee toute almost only after operative injuries u h

at max result from an error in the hingue)

d In exten on of the suppuration of the acce on cauties (mo of the yappuration of the antum of 11 gh more or the ethnoci) to the orbit (orbital ph) gmoo) a a rule by progre to ethromhophilebits of the or bial ten be nay uf the senous picus es and since the contract of the orbit of the

of the bale of the kull particularly as caleroose, the miles:

If With amultaneous fracture of the bale of the kull through the fracture to be in the lamina er brown (fre

quent(s) or the roof of the a sessory cavities

111. With other injuri s

4 for trumsti base s of the na al sej turn through
the lamina cribr sa (parti ularly in dull injuries of the
external carifala, thous of bony no e)

b in puncture wound through the orlst when the sate if the puncture is not me rangle of the veu wally through the roof of the ethmost and the lamma crite a or multane ut at me in the roof of the sphenoisal inus. When the site if the puncture I more lateral through the roof of the frontal inus.

c In gueston injuries a ording to the polition and three tion of the wound it a k either from the wound track of from lateral proje too.

C With origin in the phaty agical or but all callty in per tonsillar and lateral ph syng all pile on or with origin.

tonsillar and lateral ph. ryng al pi le on or w'th oficin in the teeth al. as through an asc nding thromhophichits by may of the venous pl. ruse and into of the ha e of the skull (avernous thrombo et)

Zange, emphasizes that it i of particular importance as regards the operative procedure to recognize the fact that the infection frequently passes through the unchanged bony wall by way of the vessel canals. He then reviews statistics regarding the successful results and failures of surgical treatment. By exclusion of the primary focus at (19) per cent) of 55 patients foome of whom were morbund) were unred off r x8x cases treated in other chacs (in cluding some that were very severe) a cure was obtained in 364 (28 per cent). Of early cases 24 per cent and of full) developed cases 33 per cent were cured. Of cases of meningitis originating in the labyrinth 22 per cent were cured. When the conduction was unlateral that the infection originated in the note of the conduction was unlateral that the infection originated in the note. One cent were cured. Of the 2x cases in which it began in the phasy in all were fatal operation was performed in 19.

Zange calls attention particularly to the difference in mortality between the cases that came for treat ment early and those that came late. He emphasures the importance of diagnostic spanal puncture hut states that its results are of value only to corroborate the clinical putture. He calls attention to certain possibilities of error in the examination of the cere broapinal fluid. When addressions are present the cerebrospinal fluid may be entirely normal at one ingitis at another. In suppurative meaningths of men ingitis at another in suppurative meaningth in the diad may at first be entirely clear but contain an in creased number of lymphocytes and granulocytes whereas in sevenus meningits it shows only lympho-

"The changes occurring in the cerebrospinal fluid in traums or infection (hamorthages) are cited. These changes appear promptly but in contrast to the changes caused by inflammation usually subside rapidly. As the diagnoss is often not made until alet Voss always gives prophylactic treatment. He has obtained good results by following this plan hut the author does not accept his recommendation. Zange warns particularly against proceeding too engetically in fractures of the base of the skull. He regretically in fractures of the base of the skull if the patient being kept under constant observation.

Zange next reviews the various operative proce dures for exclusion of the primary focus and of the routes of propagation in the region of the lateral and antenor cranial fossæ He describes the technique for exposure of the semicircular canals without in jury to the facial nerve or the fenestra rotunda At tention is called to the fact that as in the nose the true locus is sometimes not found at radical opera tion Frequently the focus must be exposed at a dis tance in the dura. Sometimes the vestibulum and cochlea must he exposed (Jansen's extended opera tion) In the case of the nose it is often necessary to expose all of the accessory cavities. In the case of the extremely sensitive lamina cribrosa the greatest caution is necessary as it is often through this struc ture that extension of the meningitis first takes place

Tinally Zange describes the fronto orbital route (removal of the frontal process of the nasal bone lawns albone lawns papyracea floor of the fron tal sinus ethmoid sphenoidal sinus and the roofs of

the frontal and sphenoidal sinuses with care not to injure the lamina cribrosa). The operations neces sary are often such as to require the most accurate anatomical knowledge.

The author agrees with Guleke that the chief aim of our endeavors should be to prevent the occurrence of meningitis

In the discussion koenic (Wuerzburg) cites the difficulties met with by the surgeon especially the surgeon in the country in this field in which the cooperation of surgeon and otologist is so necessary

WILLICH (Jena) reviews his investigations on the circulation of the crecibospinal fluid With dye stuffs or the notine test. he attempted to ascertain how soon fluid injected by the lumbar or the suboccipital route would appear at the opposite end. He has come to the conclusion that there is no important physiological current as the appearance of the neglected fluid could be histened by raising the pelvis or the head of the pelvisor that the substantial properties of the head of the pelvisor that the pelvisor is the pelvisor that the pelvisor that

SCHMOTTER (Jena) discusses the action of antisept the solutions in the subarachond space. The experiments were carried out on 33 dogs. Mercury preparations us as sublimate and also nyanol and action such as sublimate and also praval and actions such as sublimate and carried substantial preparations. Bad in nijurnous effect on the tis preparations there was no necrous but for of determine and substantial preparations there was no necrous but for of determine and substantial preparations definite round cell in filtration and hypercenia and solution of sodium chloride hypercemia but only slight round cell infiltration. The experiments show that the action of in tradition of the control of the substantial produced and the city cubic and the substantial produced and the city of th

SCHOCABAUER (Lienna) discusses the fate of pa tients discharged after recovery from meningitis 25 patients treated in 1927 3 are still living One of these is still able to work at full capacity seven years alter his discharge. Another also remained well for some time but died later of disease of the liver The third suffers from epileptic convulsions Of 66 patients treated in I irquet's pediatric clinic 13 are still alive Of 30 children who had epidemic meningitis 8 are still fiving One of these is deaf 3 have hydrocephalus 1 entered the clinic again on account of epileptic convulsions a continues to have symptoms i died a few weeks after discharge and only I remained entirely cured and developed well Therefore of 10 children who survived only 3 are normal All of these cases were treated with sero therapy not by surgery

STABLINGER (Innshruck) reports that he has been able to demonstrate urotropin in cerebrospinal fluid obtained by corpus callosium puncture and drainage of cysts. In experiments he injected a roper cent solution of urotropin into the internal carotid. On

Yange first defines menungitis and calls attention to the fact that not every electrons and hydrogs is inflammatory. I uncture may reveal increasel price sure but no intrher changes in the cretebrospinal fluid such as an increase in cells or protein. On the other hand the acceptance paid fluid with who should have a contracted to the surgeon and ofology it the determination of the previous infection is of import and increase in the creaming the singular contract as well as the clinical simptions and the changes in the creepbospinal fluid picture. Same excludes from his il, cussion meningitis plot.

due to infection. He deals principally with two forms suppurative meningitis beginning suddenly or insuliously in which the cerebrospinal fluid does not necessarily contain pus but always contains poly morphonuclear cells and serous meningitis which may go on to the suppurative form lie states that the diagnosis is not always simple even the experi eneed otologist may err \ differential drignosis between circumscribed and generalized meningitis is not always possible even after trephination. Accer theiess the results of treatment depend upon early diagnosis since mentagitis can be influenced by way of the primary focus only in the early stage The value of chemotherapy and serotherapy is still cloubtful. The withdrawal of cercbrospinal flui I has its dangers although in some clinics it has increased the number of cures. Urotropin helps decidedly in many cases \ comparison of the statistics before and after its use showed that It has increased the number of cures by about half Bier's passive hy peramia applied to the neek sometimes has a favor able influence particularly after the withdrawal of cerebrospinal fluid. The chief essential however is exclusion of the primary focus and of the route by which the infection travels as completely and as early as possible. For this an exact knowledge of the routes is necessity These routes are outlined by Lange as follous

THE BITES AND ROUTES OF INFECTION IN MENTICIPES DESCRIPTION OF THE EAR NOSE OR HERSEN'S INCLUSIVE BUILDIANSOUS INJURY TO THE BUSE OF THE SECIL (FRACTURE STAR WOLVED OR CLASHOT WITED)

A With one in it le car (middle ear aith its a cescory cavities in the masteid and the re r of the t etrous portion of the temporal bone)

- I in acute and cironic suppurations of the middle est a to the middle cranial to as through (i) the ten ment tympan (a) the antenior or pote sor ba e of the tip of the petrous portion of the temporal bose (near the clivis) in osteomy-cits of this jart of the bone
 - h To the posterior crainal to a (1) directly through the boar in front of the photind the train ensures and sigmoid since (with 0 gm in the mistoid process) (2) indirectly by way of a intellerous man thrombout (with on, in in the mistoid process) and only metrics or though the six of the mistoid process of the mistoid p

II With simultaneous fracture of the base of the sky ! involving the ear. The infection spreads by way of the bons projections of the base of the kull most frequently through the tegmen tympun and along the saten of marg a Of the petrous portion of the temporal bore in front of the inner ear and more rarely through the ras ton it roces and no terior trapial tossa (be) and the meet cae) or il rough the tegmen timi ani an linner eat foot Is and lat grinth) into the fi ner and tory meatus. To present errors in diagn of thi particularly important to note that in spite of the fact that in all a cases severe el turbances of the inner ear (lo s of hearin se tuo with nystagmu etc) are regularly pre-ent the cause may be not in the inner ear but behind the I lyneth frear contu ton harmorrhame from the eighth nertel III With infected puncture wounds or gun bot in furses. The route of intection is either the punct re of gun hot track injuring the cramium or inner ear or projections from this track

B With origin in the nose and its accessory carries

I In acute and chronic supportations of the nose and accessors main cavities

a In infection (furuncle) of the external nose (and upper lap) from ascending thrombog hightis by way of the venous plexues and i muses of the base of the should (caverno us sinus thrombos) et).

3. In pure suppurations of the inner no e through the lain as cribrosa by way of the lymph or blood vessel.

(extensely rare) In suppurations of the acce ony cavine through the footal bone or the roof of the ethnoid can't or plenoidal into or through the lamina enhousable latter route almo to only after operative injuries such

as may re ult from an error in the hunga?

I neven in of ele suppuration of the section of the entries of the entries of the entries of the entries of the section of the s

through the Ira ture 1 are in the lamina embrosa if e

quently) or the bot of the acce sory cavities
HI With other injuries

a In traumatic ab es of the pa al entum throu h

The lamma or by sa (particular) in dull injure of the external cartilaguou and bony n se)

b In pun ture wind through the orbit when the see if the functure; in the inner and of the cyc

u unit through the root of the ethmoid and the lamma enhor a or insultaneously through the roof of the phenodal insu. When the site of the puncture is no e lateral through it eroof of the frontal and e. In gunshot mouries a ording to the position and direction of the wound track either from the wound

Track of from lateral projet toos.

With origin in the lateral projet toos with origin in the lateral placegoon or with origin in the reeth always through an ascending thrombophicbus by way of the second ple u.e. and single of the be of

the skull (a cruous thrombo

Lange emphasizes that it is of particular importance as regards the operative pro-educe to recognizthe fact that the infection frequently passes through the unchanged bony wall by way of the vessel cmal-He then reviews statistics regarding the successful results and failures of surgical treatment. By exclusion of the primary focus 21 (49 per cent) of 54 patients fosme of whom were mornbund) were cured Of 1282 cases treated in other clauses (in cluding some that were very severe) a cure was obtained in 361 (28 per cent) Of early cases 24 per cent and of fully developed cases 33 per cent were cured Of cases of meningitis originating in the labyrinth 22 per cent were cured. When the conduction was unlateral as the violection originated in the was unlateral as the violection originated in the hoose of per cent were cuted. Of the 2 cases in which it began in the pharynx all were fatal operation was performed in 19.

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cytes

The changes occurring in the cerebroapinal fluid in trauma or infection (hamorrhages) are cited These changes appear promptly, but in contrast to These changes appear promptly, but in contrast to rapidly. As the diagnosis in often not made until tale Voss always guest prophylactic treatment. He has obtained good results by following this plan, but the author does not except his recommendation. Zange warns particularly against proceeding too en regreitedly in fractures of the base of the skull. He balieves that an expectant policy should be followed observation.

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In the discussion Koenic (Wherzburg) cites the difficulties met with by the surgeon especially the surgeon in the country in this field in which the cooperation of surgeon and otologist is 50 necessary

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Schauffre (Jena) due cusses the action of antiseptic solutions in the subarachnod space. The etype ments were carried out on 32 dogs. Mercuty preparations such as sublimate and also rivanol and serious preparations such as sublimate and also rivanol and serious preparations. The substitution of the substi

SCHOENBALER (Vienna) discusses the fate of pa tients discharged after recovery from meningitis Of 25 patients treated in 1921 3 are still living. One of these is still able to work at full capacity seven years after his discharge. Another also remained well for some time but died later of disease of the liver The third suffers from epileptic convulsions Of 66 patients treated in I irquet's pediatric clinic 13 are still alive Of 30 children who had epidemic meningitis 8 are still hving One of these is deaf 3 have hydrocephalus I entered the clinic again on account of epideptic convulsions a continues to have symptoms i died a few weeks after discharge and only a remained entirely cured and developed well Therefore of 10 children who survived only 3 are normal All of these cases were treated with sero therapy not hy surgery

STARINGER (Innsbruck) reports that he has been able to demonstrate urotropin in cerebrospinal fluid chained by corpus callosum puncture and drainage of cysts. In experiments he injected a 10 per cent solution of urotropin into the internal carotid. On

sub equent examination he was able to demonstrate o 75 per cent of the urotropin in the cerebrospinal fluid but none in the brain

BRUFNINGS (Jena) states that he has endeavored to improve the chances for the early diagnosis of meningitis. In cases in which other symptoms of meningitis are still ab ent pressure on the jugulae vein will eause headache. This is Queckenstaedt s test The pressure must be continued for one minute Even in clinically cured cases stast in the jugular vem causes herdache a sign that residues of the meningitis are still present. With regard to examina tion of the cerebrospinal fluid. Heremore calls attention to the slow distribution of the corpuscular elements in the fluid which he demonstrated by the in jection of autogenous blood. He states that the in crease of pressure in the cerebrospinal fluid should be tested not by the first portion that escapes but by a later portion and he calls attention anen to the dif ference between cerebrospinal fluid pressure and brain pressure. The cerebrospinal fluid pressure gradually regulates itself if there is no hypersecre tion Increased brain pressure is caused by an in crease in volume by ordema. Increased brain pres sure may occur without increased cerebrospinal fluid ressure Withdrawal of cerebro pinal flui I does not influence brain pressure except at first. To reduce brain pressure Bruenings has she the dura widely as far down as the basal eisterns after trephication and left it open five days. This resulted in reduction of brain pressure and improvement in the circulation in the brain. The number of cases thus treated is still small and the treatment was not always successful but in Bruenings opinion this is the correct proce dure

ZELLER (Berlin) on the basis of experiments with only indirect anasthetization of the central nervous system recommends insuffiction of gases into the subarachnoid space with the object of removing the infected cerebrospin il fluid as completely as possible and for bactericidal and narcotic effects. He believes that the cases most suitable for this treatment are those of diffuse meningitis in which puncture and irrigation are indicated The injection of the gas by the suboccipital route has occasionally been followed by disturbances of the resouratory center. These are probably caused by unequalized pressure and do not occur with lumbar puncture. Of the various gases used so far nitrous oxide acetylene or one of these gases conducted through ether promises the lest results. Nitrous oxide kills micro organisms but does so only under high pressure which cannot be used in these cases According to Schnitzer of the Robert Loch Institute streptococci cannot be cul tured from the blood of mice with a severe strep tococcus infection when the blood is withdrawn un der acatylene an esthesia. The cultures were sterile also in the cases of severely septic women during narcylen narcosis The lethal or at noy rate de velopment inhibiting effect of ether vapor on micro organisms particularly streptococci is known from the writings of Siegwart and of I hilipp I illing of the subarachaoid spaces and the venturies of the brain with introus coide and with settlere his caused no harm in Zeller's numerous annual egenments nor in several traits on human beings. Neithe has there been any injury from the introduction of sixtems of nitrous coide or activing conduct through either if the other was not heated above its booling point of its degree C. Hiera pa, sive hyperlayed the conduction of the production of the highest particular of the production of the sixtem makes possible the applications of the atternaments possible the applications of the conduction of the production of the production of the cerebrospinal hard and thus on renewed purcture an abundant washing out of the infected fluid

Schiteck (Berlin) warns as did Zange against operating without strict indications in cases of fracture of the base of the skull. In support of his siti tude he cites figures from the Urban Hospital In the first surgical dist ion he has had in the last three years 45 cases of fracture of the base of the skull with to deaths. Twelve of the deaths occurred within the first twelve hours and therefore were not due to meningitis In the 7 other fatal cases there bad been from the beginning severe clinical symptoms of brain injury Schueck has found that in the severe eases of fracture of the skull which end fatally there as nearly niways an arrenarable anjury to the brain Therefore the cases to be treated surgically must be selected with care. In extracerebral operation is diocical when a fatal intracerebral laury is present I rimary trephination is indicated in fracture of the base of the skull only when there is a true ring brun pressure

Desire (Vienna) reports a case in which a bullet was retained in the skull and there were signt of brain abouts? Stiffness of the next, and severe had eaches suggested meningitis and lumbar practice yielded put. After the lumbar injection of lipiodo and a nejections of upon of a come and of instreptedoctias serior the cerebrospinal fluid became clear and serior the cerebrospinal fluid became clear and the general condition improved but on the shelf of the condition improved but on the shelf of the condition on the condition of the forest condition on the shelf of the latter condition on the forest condition on the shelf of the latter condition on the forest condition on the memory showed the changes of chronic inflammation in the menuges but no acute change.

GULCKE responds briefly to the remarks made by those who discussed his paper. He states that with out doubt a current is present in the cerebrospinal fluid but it is very slow and can be influenced by position It i doubtful whether this fact can be made use of therapeutically The use of urotropia can be traced back to Enderlen and Justi Whether urotropin is in fact very effective appears deb t able especially since it loses its activity in alkaline solutions With regard to Celler's proposition Culcke cates Schmutter > re earches and states that he be lieves gas forming substances might act similarly to antiseptics. At any rate an irritation from pure atmospheric air has been observed in encephalog raphy He agrees that further progress in the treat ment of meningitis will result from collaboration between surgeons and otologists

ZNAOF emphasizes again that great caution is necessary in the cases in which the diagnosis cannot be made with certaint. For this reason he is an opponent of prophilactic exposures. He states that caution is necessary especially in operations that do not immediately follow puncture of the primary focus. He hoist heal large irrigations in the prod romal stage are dangerous as they may easily make the condition some Operation is indicated in pressure fractures with subdural hematoma. In conclusion he states that progress in this difficult field is dependent chiefly on the establishment of the diag noss and above all upon early diagnosis.

PERIPHERAL NERVES

Platt 11 On the Peripheral Nerve Complications of Certain Fractures J Bone & Joint Surg 1928 x 493

Platt discusses nerve injuries accompanying fractures about the elbow moviement of the musculospiral nerve in fractures of the shaft of the humerus and involvement of the external popultad nerve in fractures of the upper end of the fibula

The elbow region is the most common site of simple fractures associated with nerve injury. In a large series of cases of dual injuries collected by Lewis and Miller 60 per cent of the fractures in volved the lower end of the humerus.

The author reviews \$52 recent fractures of the elbow 419 of the lower end of the humerus 63 of the olectation and \$77\$ of the upper end of the radius. In the cases of fracture of the olectation and upper end of the radius the testes of radius there were no nerve complications. In the fractures of the lower end of the humerus there were 12 injuries of the ulnar nerve and 1 injury of the median nerve. Two of the patients with nerve injuries were operated upon and 11 recovered spontaneously. Of the injuries of the ulnar nerve 9 were, associated with fracture of the internal epicondise and 2 with a supracondisel fracture.

Levons of the ulnar nerve are of the moomplete type and due to primity contison or secondars fination neutrits arising from three to five weeks after the injury. Index as the result of a distortance of the property of the

When the first signs of new block are recognized the next's should be protected from the cumulative traums of stretching by resting the clow and six pending all efforts at mobilization. The intrusse muscle palsy should be treated by ordinary phase of therapy. Wa rule this is sufficient but in corrected diplacement or a stiff painful effow which has been diplacement or a stiff painful effow which has been

subjected to repeated forced manipulation early operation is advisable. The operation should consist in anterior transplantation.

Lesons of the median nerve are river than those of the ninan rare but ten die to be more serious. Com plete division is sometimes found. The nerve is impared by backward displacement of the lower fragment. When the involvement is slight conservative treatment may be truef for a short time but when bony displacement remains uncorrected and particularly, when there is a supremiposed ischemic contracture the nerve should be released or sutured as indicated and placed in a new bed. The prognosis is favorable even after suture if the operation is not unduly delayed.

Musculospiral lesions are rare in supracond/lateratures. In fractures of the internal eprocodyle the signs of nerve block are usually slight and transitors and spontaneous recovery to the rule. Obvously the nerve injured is the ulmar nerve. Following fractures of the external eprocondyle ulmar palsy may develop years later. The accepted treatment for this condition is anterior transplanistion. Prevention of late ulmar palsy in such cases lies in more efficient treat ment of fractures of the external eprocodyle. Such fractures constitute about 30 per cent of injuries to the lower end of the humeria occurring in childhood. If the fragment cannot be replaced it should be exceed.

In fractures of the olecranon or upper end of the radius nerve inpurs 1s rare. I latt reports 2 eases In 1 a fraction neutris of the ulnar nerve developed he or as months after the fracture and was quickly referred by antenor transplant uson. In the other special particular of the head of the radius and exposure revealed a small fusiform neurona. The nerve was left in situ and the distorted head of the radius removed. Strangely the operation was followed by recovery of extension. Ulnar pals, or easternably accompanies dislocation of the chlow the properties of the situation of the chlow the properties of the situation of the si

those of fracture of this prominence It has been estimated that the musculospiral nerve is injured in from 4 to 8 per cent of fractures of the humerus In 60 fractures of the humerus seen by the author there were 3 such injuries Recovery resulted in all. In 1 it resulted spontaneously. In another it followed suture and in the third it fol lowed neurolesis I rimary injury to the nerve may result from impaction by one of the fractured sur faces In the author's opinion secondary lesions due to inclusion of the nerve in callus formation are rare Secondary involvement usually results when the nerve becomes adherent to a sharp bons margin or anchored in the region of the groove. If the lesion of the nerve appears to be of the secondary type conservative treatment may be tried for three or four months as spontaneous recovery a frequent If the condition remains stationary exploration is

indicated In the case of the musculospiral rerve

such delay does not materially affect the prognosts of end to end suture. In primary injuries in which grave injury is suspected early operation is generally advisable. A new bed should be provided for the nerve. In recent lessons a muscle flap mas be sufficient but in old lessons the bed should be limed with lasten last.

I ractures of the upper end of the fibuly are comparatively rare but injury to the external populeal nerve has long been a recognized complication. Of especial interest are fractures of the styloid process alone or of a more considerable fragment due to strong traction Such fractures may complicate dislocation of the knee During the nast seven years the author has seen no case of external popliteal injury in fractures of the neck of the fibula but has operated upon a traction lesions of the nerve combined with fracture of the styloid process In 3 of these suture was done ten days three months and three years respectively after the injury. In the first perfect lunction resulted alter eighteen months. In the second, there was feeble power in the muscle group at the end of three years. In the third there was no sign of regeneration at the end of three years Early operation is advisable in this

type of injury

In the discussion of flatt's report Lewis said
that in cases in which there has been no primary
operation the nerve should be explored at the end of
three months if there is no distinct evidence of re
overy of function. The operation most frequently

redicated is neurolysis

Creater C Anderson M D

MISCELLANEOUS

Bagley C Jr Blood in the Cerebrospinal Fluid Resultant Functional and Organic Alterations in the Central Nervous System Ar h Surg

1028 XVII 18 In the first part of his article Bagley reports experiments performed on dogs to produce lesions simulating those occurring in man when a small amount of blood escapes into the subarachnoid space Lighteen dogs and twenty six puppies less than ten days old were used The puppies belonge I to five litters and an average puppy from each latter was used as a control Whole blood from a leg vem in the dogs and from the longitudinal sinus of the puppies was injected into the enterna magna the subarachnoid space over the hemisphere and occasionally into the ventricles. The dogs received repeated small injections at short intervals some as many as six but most of the puppies received only one or two injections

one or two injections. The stull dogs were restless and spastic immediately after the injection and recovered from the narcoss slowly. Some of them had convultive sensures. The day following the injection they were dule but whiled about and took food. Many of them died within a few days after the last injection showing marked debulty and emacation. Their be-

havior during the period they were under observation which in one instance extended to two months varied from moderate aberrations to severe convisive secures

The most striking chirch course was observed in the younger does. Mere the nuection the pupper were less active and refrained from play and when stirred to activity the lost interest more quickly than the controls. They were smaller and thinger than the controls although they are well. Four of the twenty say puppers had convolve seems after comodities reconvery from the immediate effects.

of the injections
Consultate seizures immediately followed their
pection in five oil the ten adult dogs in which the
blood was injected directly over the cerebral corter
and in one of the four dogs in which it was injected
into the lateral ventricles. In the cases of the

puppies consulsions this not occur immediately after the injections

lour of the twenty six puppies had convulsions after complete recovery from the immediate effects of the injection The first pupps had a convulsion inents three days after the last injection and sur vived thereafter for thirty six hours but during that time ha I numerous seizures The second hid its first consulsion lorty five days after the last injection and died the same day. The third puppy had his first seizure eighty days after the last injection but recovered promptly and remained fairly well for seventy two days and then died suddenly in another attack The fourth pup had seigures minety three and ninety lour days after the last injection but recovered and was kept under observation for eighty seven days during which time he had no convulsions but was aggressive and all tempered He was killed in a fight with another dog

The security were all similar Leginning with fire twitching of a muscle group and spreading over the cutire body. The animal soon lost consciou ness and lelf. Belore the los of consciousness the local expression above of marked animal. Following the

attack the animal was dull and stupid

Some of the puppies half thatchings without con
without and a student and the state of the state

vulsions and six of them died without either twitchings or convul ions

In the cases of six puppies and one dog necrop y

revealed well marked dilatation of the ventricles although there had been no chuical signs of the condition

The microscopic study of the brains showed memagical thickening where the blood came in contact with the membranes. In the cases of the dop shilled soon alter the hast microbin it in the name to be a substitute of the study of

from the fluid After several weeks the cellular elements were less numerous in the meninges but a large amount of fibrous material was present and later in the course of the meningeal reaction changes were observed in the structure of the cortex

Twelve of the puppies died as a result of the in jections eight were killed for histological study and six are living and apparently well more than one

year after the last injection

The second part of the report consists of brefor histories of tuently seven cases of bloody certon spinal fluid. The discussion does not include cases with large blood clots. In most of the cases the condition was the result of trauma but in two it was due to congenital venous anomalies in one case to a tumor of the brain which was present at hirth and in five cases to our ancurrent of the auterior and the cases to our ancurrent of the auterior recovered the cause could not be determined but was probably a tetronoclemos. Attention is directed to the importance of cerebrial raums without displacement of bone. The author states that even a small blood clot may result in epilepsy or traumate insainty. Symptoms following the escape of blood into the cerebrospinal fluid depend upon the amount of blood and vary from slight headache to severe pain with convulsive securies and loss of consciousness. The most important signs and symptoms in patients with a small quantity of blood in the cerebrospinal fluid usually appear after an interval of a few days and are due to the reaction the blood is absorbed. In adults recovery may, take place but in the cases of infaints who are not treated mustel rigidativa and epilepsy frequently develop.

The treatment is a fined at removal of the irritating blood and the pre-ention or relief of meningitis. Thus is best accomplished by drainage of the fluid by lumbar puncture decompression or the formation of a bone flap. Grieder C. Andreason M.D.

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Trinca A J Abnormal Hyperplasia of the Female Breast and its Relation to Tumnr Formation Wed J Instraina 1928 1 732

The ethology of hyperplavia of the herast seems bound up with the remixable and sensitive recition of the Unreast to stimulation. During measurants withing of the herast with or subnoil; fun and tenderness is common and occasionally, there is a diffinite secretion from the mpile. In both seers the control of the control

localized breast thekening may result from chronic mechanical irritation and repeated traums. In the cases of grif and young women they may be treated conservatively if there is a history of mechanical or other stimulation. The use of oint ments or any form of treatment that involves rub bing; to be condemned as mechanical simulation.

will promote secretion

l of the removal of specimens from thekenings in the breast for microscopic examination the author induces unesthesis with nitrous-orde oxigen as with this form of anasthesia the patient can be kept in a light and safe state of narrosis for a sufficient time for several pieces of tissue to be sectioned and examined.

In the treatment of evists age is the dominant factor In the cases of young nomen especially it the condition is bilateral conservative surgert control of the condition is bilateral conservative surgert control of the control of th

TRACHEA LUNGS AND PLEURA

Brown R C Bronchlectasts in Children The Pseudo Robust Appearance in Cases Associated with Nasril Accessory Sinus Suppuration 11 c K y Soc Med Lond 1925 via 1569

The author calls attention to the frequency of the association of antial for more arrely other nasal acce sors unity disease and bronchiectass in this deep in 100 he pointed out that there is a typical licies in these cases. The patient appears healthy even robust on casual observation and except in cases with the typical adenoid facies which is a rate accompanium of the conditions the face is broad because of the large size of the antial cavities and the upper jaws.

In the treatment any mass lobatruction should a sorrected and antital or other unus appundist classed up by conservative or if necessarization measures. Mailled turbinectoms with tonsilization or all alenoidectoms, may be required. For the bronchiectures if it was to the conservation of a latenoidectom, the conservation of the bronchiectures. However, we are the sound become the conservation of the cons

Jace B. M. Mora M.D.

lee W. F. Tucker G. and Clerf L. Postopera tive Iulmonary Atelectasis fan Surg. 19 8 155551 6

Lee W. E. Raydin J. S. Tucker G. and Pender grass E. J. Studies on Experimental Pul monary Atelectasia. Ann. Surg. 1928 122341. 15

IFF TECKER and CLERY. The authors believe the true etological factors in postoperature put monary, complications are the phenomena of put monary collapse of varying degrees together sub-pulmonary embolism and infarction. They agree with Masters that over 70 per cent of the social postoperative and postanasthetic pneumonias are avaring degrees of telectasia. They state that massive attelectast involving more than one lobe of the lung is usually mentates in pleural effusion energy of the presentation of the presentation of the lung is usually mentates in pleural effusion energy of the presentation of the presentation of the lung is usually designed as bronchopneumous or sulmonary lung statered areas in one or more, lobes is diagnosed as bronchopneumous or sulmonary infar tion.

In a study of thirty three cases of postopersture massive attellicians to determine the cause of the condition two factors were found to be constant if 19 a thick, we red bromain the factors are found in the constant inhibition of coughing. When the patient is unable to clear the secretion from the bronch is carried as some point or points it completely occlude and all some point or points it completely occlude and all some point or points it completely occlude throughout the point of points it completely occlude throughout the point of points in completely occlude throughout the point of points in the point of points are affected by the points of the p

Arabadal found that after a namber of coughest sells stimulated by mechanical irritation of the pharps substances of the con issues of muerical are drawn farther min the lung and probably reach the terminal already whereas substances of substances of the common already whereas substances of substances of the substanc

bronchioles it will move back and forward at ex piration and inspiration and definite wates will be created on its surface. At the point where the expiratory and inspiratory waves meet there is a piling up of the viscid bronchial secretion into waves which on reaching the opposite wall of the bronchus

completely occlude the lumen Clinically the authors have demonstrated that if the obstruction can be overcome by making the patient cough by changing his position as suggested by Santee by vigorous shaking or in the cases of soung children by spanking and an airway can be established past the point of obstruction the patient may temporarily at least free the bronchil tree of large masses of secretion and thus re-inflate the pulmonary tissues. In eight cases in which the authors found it necessary to aspirate through a bronchoscone the aspiration was followed by im

mediate remilation of the lung distal to the ob

struction The authors report a case in which massive atelet tasis developed after a radical inguinal hermorrhaphy performed under ether anæsthesia During the administration of the anasthetic there was more mucus in the respiratory tract than usual and about twenty four hours after the operation breathing became neculiarly distressing and strained because of pain in the operative wound. The temperature then began to rise and complaint was made of a slight midsternal pain. Forty two hours after the operation the respiratory symptoms were still more marked and there was a distinct displacement of the heart to the left The clinical diagnosis of atelectasis was confirmed by roentgen ray examination. Fen hours after the onset of the clinical symptoms. Clerk drained through the bronchoscope from the left main brochus 9 e cm of thick tenacious bronchial secretion which gave a pure culture of pneumo eocci The bronchoscopic drainage was followe!

by immediate relief The material removed was kept on ice for twenty four hours and then introduced into the main bronchus of a dog In order that all of the suspected etiological factors might be povised the dog was narcotized with morphine and anasthetized with ether and an operative incision was made into the abdominal cavity and closed surgically. Then 7 cum of the secretion removed from the patient were introduced into the right main bronchus. Coughing an I struggling followed which drew the secretion into the deeper portions of the bronchial tree At this point 250 mgm of sodium amatal were ad ministered intraperitoneally to eliminate the cough reflex With the loss of the cough reflex respiratory efforts became deeper and the entire mass of bronchial secretion was drawn into the right bron chus \ few minutes after the complete introduction of the bronchial secretion an I following the removal of the bronchoscope definite respiratory di t es de veloped. This distress was often so marked that it seemed that the dog was about to die Finally however the respiratory movements became regular

and the those although because of the amount they were slow The movements of the right side of the chest became restricted while those of the left side were greatly exaggerated and there was a distinct hufging with a visible increase in the size of the left half of the thoracic cavity. After three hours roentgen ray examination revealed complete atelec tasis of all of the lobes of the right lung with trans position of the heart of the right beyond the spine So far as the authors are aware this is the first

successful attempt in which the obstructing bron chial secretion from a clinical case of postoperative massive atelectasis was used to produce the condition in an animal

situres

LEF RAVDIN TUCKER and PENDERGRASS The authors report in detail five experiments in which nulmonary atelectasis was produced in dogs. One was the experiment described in the article by I ee Tucker and Clerf above. In the others, the ma terral introduced into the bronchial tree was acacia solution similar in its viscosity to the secretion found in clinical cases C O HEIMPAL M D

Joannides M Surgery of the Lung Care of the Stump in Pneumectomy and in Lobectomy Ir h hare toch will of

In 1909 Meyer summarized the main steps in the various operations on the lung that had been devised up to that time as follows

The application of a single mass ligature around the bronchus and its vessels amputation cauterization of the mucosa of the stumps with pure phenol or the Paquelin eautery

The application of a single elastic mass ligature around the hilum and removal of the lung at a second procedure ten days later

3 Ligation and division of the main bronchus with suturing of the remnant of lung tissue over the stump

4 Isolation and temporary clamping of the bronchus curettage of the bronchus the applica tion of a tight silk ligature the application of a loose catgut ligature more centrally around the bronchus A method for pneumectomy which Meyer has found successful consists of the following steps (1) isolation of the bronchus (2) clamping and crushing of the hronchus (3) ligation and amputation and (4) burying of the stump and the insertion of top

In an ingemous technique he devised for lobectoms Libenthal applied a chain of pedicle suture ligatures and then excised the lung leaving a generous stump The ligatures were left long and were included in a rubber dam pocket which prevented the remaining intrathoracic viscera from coming into contact with the stump After this procedure the rubber dam and the ligatures sloughed out leaving a healthy

In the surgical treatment of the lung hiemostasis is the least troubl -one factor. The success of oper ation depends upon the formation of a completely air tight stump As the respirators movement of

the lungs causes contiguous lobes to interfere it is necessary to pack the lobes away with wet gauze so that injury will not be pro luced. Sometimes even a slight puncture with the needle or the tip of the knife causes troublesome leakage of air and blood necessitating suture of the lung Other unfavorable factors are increased intrathoracic pressure from the thoracotomy opening a sudilen change in the temperature of the intrathoracic organs manipula tion and exposure of the pleuril cavity and do turbance of the vagus and phrenic nerves. The more quickly the operation is performed the hetter the chance for recovery

Joannides describes a technique for pneumectoms which may be completed in twelve minutes under artificial respiration. In theislon is made paraflef with the ribs and the platysma and late simus dorse are me, ed in the direction of their fibers. The pleura is then punctured the opening being enlarged to the fingers or a blunt instrument and a rubber covered intestinal clamp is applied to the hilum with pres ure sufficient to control hemorrhage and leakage of air. The lung is then cut a wedge shaped piece of tissue being left to cover the stump and the bronch; and large vessels are isolate I and ligate I The lung to sue is sutured with a running suture begun at the middle first on one side and then on the other In such a way as to bring the two sules of the wedge into apposition. After this suturing has been completed the clamp is removed and if kakage of blood or air occurs interrupted sutures are applied. The stump is then closed and afror ped into the chest and the wound is close! In some experi ments the phrenie nerve is cut just before the chest is closed in order to cause paralysis of the diaphragm and thus reduce the danger of suction through the stump Three fine wires are used to aid the approxi mation of the ribs Care is taken not to handle the heart or the pencardium any more than is neces sary as even the slightest handling has eaused definite lirecularity in the cardiae rhythm

Lifty four partial or complete pneumectomies were performed on dogs. Vine of the dogs operated upon in the earlier experiments dud on the table All of them showed evulences of pleural arritation with a greater or less amount of exudation. In dogs that died during the first ten days after the opera tion the chest was found full of serosangumous exudate which would not clot either within or out side of the chest. In one experiment necrosis of the stump with infection and leakage resulted because an undue amount of strength was used in tying the suture. In all cases a thickening of the pleura around the stump was found Thickening of the pleuta and adhesions are important factors favoring a good

result The method d scribe I has been found sati factors in experim ats on the dog It provides a stump which eventually becomes strong and I revents per foration of the bronchus The procedure is simple does not require any special instrument and can be finished in the shortest possible time. It provides for the approximation of en lothelial surfaces similar to that of trained in operations on the gastro-intestinal tract or the blood sessel MERCE R. IIxx MD

Hart D Acute Empyema Treatment by Contin uous Tidat freigntton and Dratnage Dependent on Normal Respiratory Movements 4rch S 1928 XIN 192

The advantages of the closed method of drunn and strigating an emptem 1 casity are summarized by the author as follows

t The methol is simple and easy the in irling of a tube through a troops under local angothe is requiring only a few minutes

The pressure within the cavity can be relea ed at any desired rate

3 I ittle care in the form of the ing is necessary

The casity is not continually sucking air

So fong as the juncture of the tube with the walf of the chest is air tight suction can be applied the pressure within the emprema cavity bei thereby reduced below the surrounding atmosphere pressure and the size of the cavity if crea of by the

resulting expansion of the lung The arguments against the procedure are that the dramage is invileguite and the pus which become thick and the fibrin which collects in the tube can t a damming up of the infecte ! flutil within the chest among the minor disadvantages are the presence of the L i us which makes irrigation of the cavity slo and difficult the tendency as healing progresses to overdistend the cavity which is tending to collap e the feakage of our groun I the tule which demand frequent dressings and the plugging of the tube which causes almost continuou irritation and annovance to everyone concerned with the care of the nations

the irrigation apparatus used by the author con st to of a subber tube which is pas eif into the dependent part of the emprema carity through a trocar th tracetomy wound and just outside of the ellest is connected by me ins of a I tube with a rubber bog on one si le anil with a subber tube leading thr ugh a 's tube to an irrigati n bottle above and a drainage buttle below on the other sufe The rubber big is strapped to the atdomen in t below the trocur thoracotomy wound and shehtly below the level of the emprema avity when the patient i in I owler's position This gives a slight amount of suction at all times

Larly in the treatment when the cavity is large the fluid within the bag should be renewed every hour in or ler to keep the pus relatively thin I ater when the cavity has become small in I clean it is necessars to read the bagonly a few time in twent) lour hours

The continuous movement of the third prevents the congulation of fil rin an | the king of the tub In all ca es the cavity has ben ker tale in the ilrain age fluid at no time even with suits n leing too thick to allow the rea iv transmi on of light through the glass connecting tubes

Whenever desired suction may be applied to the cavity the nature of the residual fluid in the cavity determined and the cavity irrigated by allowing clear fluid to flow in when the suction is released

In the treatment of cutte emptem complicated by bronchalf istula the author uses a fast, partially nifed with irrigating fluid and connected by an opening at its dependent part to a short tube entering the emptema casity. An irrigation bottle is consected with an interest of the angle of the entering the emptema casity. An irrigation bottle is consected with an interest of the entering the en

The adva tages of the continuous tidal irrigation method are summarized as follows

t The trocar thoracotomy subjects the patient

to the minimal operative procedure

2. Astheiringation tube practically never becomes
plugged there is no obstruction to free druinage

3. There is no large raw surface to become in

fected by the continual soiling at the time of and following operation

4 As there is only late and negligible leakage

4. As there is only late and negligible leakage around the tube in the thoracotomy wound dissecting infections do not occur and the necessity for dressings is practically eliminated.

5 Suction can be applied as desired when expansion of the lung is slow after long compression 6. The apparatus which is used in cases with a bronchial fistula permits the immediate escape of

air from the drainage system without allowing air to enter the chest or disturb the siphoning action?

The closing of the emptema cauty is more rapid than after early rib resection and open drainage.

Vigita R Hoov M II

MISCELLANEOUS

Meliraith C. II. Turner W. and Ilicks J. A. B. Thoracic and Abdominal Streptothrix. Lancei 1928 ccxv 68

The patient whose case is reported a worsian teenty four years of age attended a football game on the afternoon of December 12 1035. That eve may she fift cold and throughout the might she suffered from attacks of vomiting. The next morn may the fift bether but in the evening the vomatting recurred and was accompanied by pain in the recurred and was accompanied by pain in the suffered and the same account on rigidity of the abdomnal wall was found but slight tenderness was noted in the feltiluse fows 10 necroid extumination no tenderness or swelling could be discovered in the appendix region. The temperature was 90 8 degrees F

The pain continued but the vomiting ceased on December 14. On December 16 a distinct swelling could be felt in the appendix region and the tem perature was 988 degrees 1 in the morning and 92 degrees 1 in the ening

On December 13 the appendix was removed in a state of carly gangrene. After the operation con valescence appeared to be progressing normally for

ten days but on December 28 febrile symptoms developed and complaint was made of pain in the right lumbar region. The temperature continued to lise and the pain to increase

On January 4 10 6 the right permet hire region was explored but nothing abnormal was found This exploration was followed by 1 steady decrease in the pain and temperature until March 8 when pain developed in the supraphibe region and the temperature rose to 101 decreas P. Colon barillium was found and treated by a vaccine. The pain and fever then gradually subsided and the urine became bacillas free.

In the latter part of April the patient went to the sesside and while there had a recurrence of the pain in the right lumbar region accompanied by fever When she was brought home examination showed a marked diminution of movement in the right side of the chest and a decided budging of the lower ribs on that side Exploration of the chest revealed thick blood standed out

Truncer saw the patient for the first time on May 26 On May 28 under general anaxisties a needle was introduced into the ninth interspace in the inspile line and blood stained put was with drawn. When portions of the eighth and minth ribs were removed an abserss the size of an orange which opened into the plean was found. The lower wall of the abserss was dome shaped and smooth. No offer the size of an orange which opened into the plean was found. The lower wall of the abserss was dome shaped and smooth. No offer the size of the

In the middle of July a new swelling developed in the epigastrium and over the margin of the ribs and on July 3n Turner opened a second large abscess evidently situated between the liver and the diaphragm From the contents of this abscess a vaccine was prepared and injections were given ever, five days beginning with a dose of a minim The strength of the vaccine was a mgm per cubic centimeter The only apparent effect of the vaccine treatment was that the granulations of both op erative wounds increased greatly and became ve v vascular On August 12 12 minims were injected the granulations were painted with a mixture of brilliant green and methyl violet in equal parts in a 5 per cent solution of alcohol and the abscess cavity was packed with strips of gauze soaked in the same solution

On August 24 1 c cm of the vaccine was given and it was decided to discontinue the large doses of oodde preparations which throughout the illness had been given by mouth because no intravenous in jections could be made as it was impossible to distend any of the superficial veins sufficiently

that date the patient was seen by Symonds There

ivas then a bulging in the side behind the first on critive wound and the formation of another abscess in this position seeme I probable. It was decided to continue the vaccine treatment and await further developments Twenty minims were given on September 28 and 22 minims on October 1. On the latter date the temperature reached normal for the first time since April and after October 2 it showe I 110 c ening rise. The granulations had by this time completely di appeared leaving a healths sinus from front to back an I the swelling in the side was much smaller. The vaccine was injected weekly until the en l of October and then every two weeks By November 4 the sinus had cle ed Thereafter vac me treatment was continued at monthly in tervals until lune 1027

The patient is now in perfect health and able to

carry on her duties as a man cuse

Hicks lescribes the preparation of the vaccine as follows

I fairly abundant growth of the streptothers u as obtained in glucose brith under anterobic con ditions (Macintosh and Lides jur) Subcultures (fortunately luxuriant) were only obtained on the first oceasion all attempts to raise a second series liter centrifugalizing down from the broth cultures the streptothrix was mashed several times in aline The supernant saline was remove! from the last washing as far as possible to the last drop the resultant wet mass being groun I up in a small sterile agate mortar. This squeezed out a certain amount more fluit which was dried off in an is en taking great care not to sley out the mass com pletely A slightly moist mass resulte I which could be neighed and an original stock suspension was made up of a strength of a mgm per cubic centa meter of which the patient half an initial dose of oos mgm in lugust Later on (October) in the course of the disease the stock was mereased to 4 mem per cabic centimeter

McIleanth has seen a number of cases of strepto thrix infection of abdominal and thoracic regions but has never seen one clear up on sodine or sodides

In the case reported the brilliant green and methyl sodine mixture kept the wound clean and lessened the exuberance of the granulations but there was evidence that the vaccine was the deci ling factor in the cure Soon after the vaccine was started the granulations became vascular and large a sign of progress in healing as the granulations in streotothrix infection are not parti ularly vascular Moreover in the latter part of September a swelling was developing in the region of the original operative wound At this time the vacrine had been pushed un to 1 mgm of the streptothers mass and am mediately after this dosage was reached the tem perature began to approach normal and the swelling to subside The s creus in the dosage was con tinued systemati ally and carefully until the pa tient vas taking 4 mgm of the streptothric mass Apparently therefore large doses are easily tol JOHN J MALONES MID erated

Alexander J A Brief Survey of Thoracic Surgery J Machiga : State 31 Sec 1028 xx1d 451 The author discusses thirtly the surgery of em prema pulmonary tubercul sus bronchiectasis line

abscess and cancer of the ecsophagus

He states that the main reason for the granty of acute empyema is probably that the condition is not diagnosed until too late Before adhesions hair formed the treatment indicated is prompt and re peated needl aspirations of the fluit or pref rably the air tight introduction through a cannula of a drainage tube and a small r tube for frequent anti septic arrigations. In the cases of children such treatment is usually sufficient but in the cases of adults rub res etion is commonly necessary later The principal avoi lable cause of chronic empremais improper drainage. The drainage tubes hould be er be removed until the intrathoracic cavity has been entirely obliterate 1 In a large majority of rases prolonged adequate drainage and antisepti irrigi tions of a chronic cavity that has been inadequately drained result in a marke I decrease in the si c of the cavity is its complete di appearance. Cavitus that ful to close under this treatment require radical surgical measures to permit the lung to expand to the chest wall or to bring the chest wall flown to the

collapsed lung In pulmonary tuberculosis the purpose of surgical treatment is to place the diseased lung at rest from ats constant respirat to movements and more or ess to obliterate the cavities that are often present The simplest method of obtaining compression of the lung is artificial ppeumothorix. In eases is which pl ural a lictions present adequate compres sion of the lung phrenicutoms will often bring about the desired result Extrapleural thoraco plasts compres to the lung and 1 to be u ed when other methods are not available. In the cases of three pats ats who were not proper subject for thoracoplasts Manager obtained good results by combining phrancertoms with removal of the posterior sections of eight or nine intercostal nerves thereby causing respiratory quiet and a certain

amount of lung compression or relaxation In branchiectasis and lung absc as surgical treat meat is indicated when cons reative treatment fails

to cause improvement. The surgical measures usually to be considered are r Artificial pneumothorax This gives its be t

results in recent suppuration near the hilu n 2 Phrenicectomy in fical desix cially for I son in the lower half of the lune

3 Cauters drainage through the chest wall Tais is indicated for peripheral lesions

In chronic cases extensiv extrapleural thoraco plasty of extrapleural pneumoly 1 is indicated With regard to cancer of the resonague the

author states that terhnically satisfactory methods for resection of the cervical or thora ic portions of the esophagus have been nork dout and have been used successfully in about air cas 5

RALP & B BETTHEN MD

SURGERY OF THE ABDOMEN

GASTRO INTESTINAL TRACT

Bolton C The Interpretation of Castric Symptoms 1 The Mechanism of the Production of Pain II Analysis of Cases of Pain Inct 1328 cxxv 1759 1217 163

Cases of dyspepar are classified chincally record up to groups of symptoms each of which as the chincil expression of a functional thoroter of a particular part of the stome. The cases my be organic or not. The cases are du wide also into those in which the stometh is stricturally normal. The cases are discounted to the control of the case of the case

capable of performing and periodically did perform

its functions normally

The symptoms constituting dyspensia are due not to an alteration in the secretion of gastrie juice but to alterations in the motor function of the stomach Asceral symptoms in general are almost entirely muscular in origin. Muscular sensitions are classified into two groups (1) minor sensitions such as di comfort and a sensation of weight and fullness and (2) pain The difference is only in the degree of the intensity of the stimulus which de pends upon the stability of the nervous system Stretching acts as a stimulus to smooth muscle and il it is gradual the muscle elongates to some At a certain point however contractions begin Rani I tonic and rhy thmie contractions begin at once but finally cease if the stretching process is kept up Is in acute dilatation the stomach may be stretched to enormous limits without pain. In atomic conditions of the stomach there is no pain because the muscle fiber is unable to recover its normal tone I ayne and I oulton believe that when the walls of an organ are stretched all of the struc tures forming it muscle fiber and nerve endings take up the tension and that pain is due to stretching of the nerve endings that sub erve the sense of pain If the muscle contracts it overcomes the stretch and takes the strain off the nerve endings but the tension in the muscle fiber is further increased by this act A muscle may lengthen or shorten without appreciably lessening or increasing its contraction tension The boly of the stomach is able to accom mo late itself as it is filled by a lengthening reaction and similarly as it empties and its contents diminish in volume by a shortening reaction law inter ference with the postural adaptation of the muscu luture re ults in an increa e in the contraction ten sion of the fibers and discomfort or pain Inter ference may be caused by irritability of the neuro muscular mechanism by too rapidly filling or by a decrease in the tone of the muscle

The minor sensations felt in dyspepsia are all local and merely an evaggeration of the normal feelings experienced by healthy persons. They never radiate

The needs in which the pain of dispepsias occurs we exceptinged and gastine. The former extends from the root of the neck to the ensiorm process and is further divided into an upper and loser part by the stermum at the level of the fourth costil cart ling. The latter includes the area between the ensiorm process and the umbilicus. The sterno mumbical regions of divided into three parts an upper a middle and a loser portion. Early pain at the highest level suggests disordered action of the cosphagus, and late pain at the losers occurring in an intermediate position either early or late suggest a desorder of the mechanism of the body of the stomach.

In cases of chronic dyspicpasa periods of relative or absolute freedom from pain occur from time to time. It makes no difference whether the patient is suffering from in origanic lesson or from a simple functional disturbance. The free intervals are due to treatment or re-establishment of the normal stability of the nervous system by rest etc.

From a study of 715 cases with pain in various

areas the following conclusions are drawn

in There is no difference between minor sensations and pain as regards their significance, the one merges into the other and they are both due to abnormal contraction tension of the muscle fiber

2 The position of the pain and the time of its onset after eating definitely indicate the part of the apparatus affected and the mechanism disordered

3 I your pain occurs across the abronem in the transphort, line as a band or as a localized area in the center or at one or both ends of this line where it cuts the costal margin across the abroneme between the transplone line and the umbitions as a livind or an abortled area with eccentre but quite as frequently to one or the other side particularly the right and behind from about the eight does alt other second lumbar spine. The pain characteri tically occurs late in the digestive process.

4 In disorders of the body of the stomach and the lower part of the exceptings the pain occurs between the transpyloric line and the line of the fourth costal cartilage as a band or localized area in the center or to one side particularly in the mipple line or along the upper costal margin. Pain between the transpyloric line and the ensiform definitely in dicates a disturbance in the body of the stomach and prin above this area a disturbance in the lower escophagus. but escophaguel pain may encrach on the stomach area to some extent. Behind the pain full area occurs opposite the lower two turks of the scraula and extends down to about the tenth dorsaf spine. In disturbinees of the body of the stomach the prin occurs either in the early stage of digestion irregularly or in the fater stages although not o frequency of the stages of the stage of the stage of the to occur fate thin early or irregularly.

5 Disturinaces in the upper ensophagus are associated with pain above the fourth costaf cartilage in front usually in the center and sometimes opposite the upper two thirds of the scapula heliu I flee pain nearly always occurs soon after food is

taken or irregularly

6 In neuropathic patients the exophagus an I body of the stomach are the parts most likely to be affected

7 As the mildly progre ses most cases tend to show an increasing irritability of the nervous system. Accordingly, there is no sharp line of demarcation between dyspepsis in a person of accetage nervous stability from that in a neuropath, person

Bolton discus es pain also from the standpoint of its relief by emptying of the stomach and its relief hy food. The conclusion is drawn that pain may be relieved by foud whatever part of the as paratus is affected and at whatever time the pain occurs Complete relief is much more likely to be obtained when the pain begins late whatever part is affected but pyloric pain and its secon lary consequences on the body of the stomach and cesophagus are most likely to be relieved. I am occurring early or irregularly after the ingestion of food is unlikely to be relieved by food or is relieved by it only temporarily or partially If over action of the neuro muscular mechani m is the cause of gastric pain at various stages of digestion cessation of this over action relieves the pain. It has been shown that a mechanism for inhibiting the muscular movements exists and is brought into play in the normal filling of the stomach. This normal inhibiting mechanism must be called into action also in the condition of irritability of the stomach but with varying degrees of success according to the ability of the muscle fiber to respond normally I rimary cardiac and orsophageal disturbances in which irritability is most common are le s likely to be relieve ! hy food than pylone disturbances. The later the pain begins the less irritable the neuromuscular mechanism and the better it responds by a lengthening reaction to the introduction of food Therefore the pyloric type of case 1 usually relieve ! more easily

Entetation is due to excessive pressure in the stomach in relation to the tone of the cardiac sphincter. The miterial eructated depends upon the contents of the stomach. Vid eructation is more common in pyloric than in cardiac or acophageat

disturbances

Vomiting relieves the symptoms if the stomach is completely empited unless there is marked nervous irritability of the stomach. It is of the same frequency in pyloric and car line disturbances

Uncomplicated ulcer on whichever side of the pylorus it is situated causes the same irritability of

the sphineter and therefore pylonic pain. Irritability of the stomach may arise as a reflex effect from some other organ especially the gall bladder and the missions.

I from a construction of the position the three of onest and it he relief of pun the conclusions is draw that cases of dyspersus may be divided into the mans groups—the pilore the cardiac and the crophageal as pulromes—and that each of these syndromes has several subtypes. There is clinial evidence that pylori, disorder produces backward effects upon the body of the stomach and the escohages and that cardiac disorder reverts an effect upon the exceptives. If the patient has neuropath, tendencies the symptoms are modified in critical and the exceptive of the exceptive of the exceptive and the excepti

f Jlone syn frome Tan begins in the plone are during the later stages of digestion and is secon princip to secondary cardine symptoms either is much hungry feeling or a sensation of follows out may be absent and secondary cardine symptom alone may be present and secondary cardine symptoms done may be present in all tipes of case eructations and secondary cardines sometimes of the secondary cardines common to control the secondary cardines common forces.

Carduse syndrome. I am or fullness begins in the carduae area during the early tages of digeston moderately late or irregularly. In some cases the pain is a comprehed by vomiting. Secondary resophageal symptoms ore common and the fload eructite it is more hiely to be bitter or neutral than and The symptoms my or may not be relieved by

Gophageal syndrome The escoplaged was drome is either pinnary or secondary and con ust of pan or one of the minor sensations in the croplaged area. The upper and lower parts of the escophages differ in that the symptoms of disturbances of the bower parts show to a considerable either at me the body of the start to that for disturbances in the lower part is the considerable either at the case of the lower part is the considerable either than the considerable either than the considerable either than the considerable either than the case of the lower part may or early not be relieved by food but the relief of symptoms of disturbances of the lower part may or early not be relieved by food but the relief of symptoms of disturbances of the upper part is usually only temporary or partial vomating of the same nature as that of the carbox syndrome may occur from the regrugatation of fluid syndrome may occur from the regrugatation of fluid

Disorders of function due to local disease not altering the stomach structurally are of the some nature as shose caused by the disopathic malade of function due primarily to reflex metabol of function due primarily to reflex metabolic distribution of are also the same as to reflexibility origin and affect one or another; if it of the stomach check but not evelousely

The causes of the pyloric syndrome may be in digestible and irritating food hyperacidity of the gastne contents and instability of the nervous sixen. The reflex mechanism controlling the program may be rendered unstable by (f) a direct client exceed upon the mechanism controlling the rendered unstable by (f) a direct created upon the mechanism for the colon or (f) instability of the central nervous swstem Whatever the cause the effect produced is the same The policies is interfered with first in its capacity of regulator of the output of food and next in its capacity of regulator of the acidity of the gastne contents. It regulates gastne acidity by relaving and permitting the regurgatation of the alkaline duodenal contents into the stomach at a certain stage of dige ton.

The cause of the cardiac syndrome are the bottom of food which does not allow the stomach to accommodate itself to filling in a normal manuer and intrability of the neuromuscular mechanism or atoms. Where the stomach is filled too rapidly the muscle helvs are unable to undergo the noormal lengthening reaction and react too strongly with the result that the intragistic pre sure rises the contraction tension is raised and a sense of fullness in produced. With increased irritability the mecha

n; m is much the same

The function of the body of the stomach during gastric emptying is to maintain a constant pressure upon the food which keeps the pyloric vestibule full. The pre sure in the body of the stomach is maintained at a constant level by the capacity of the muscle fibers to undergo a shortening reaction without any increase of their contraction tension When the neuromuscular mechani m is irritable these movements are evaggerated there is a general increase in the tonic contraction with an increase of the variation which in some cases amounts to gastrospasm The earlier the pain begins the more likely it is to depend upon irritability of the central nervous system and the later it appears the more it depends upon the irritating acid contents of the stomach Alkalies will relieve the symptoms in these cases

The esophageal syndrome is caused by the presence of loquids gas or solid material which give rise to reflex tonic rings and peristalss. Their proers to caused by regustration from the stomach or abnormal deglution. The regustration may be brought about by an increase in the intragastric press ure or the external pressure.

JOHN A WOLFER M D

Catewood W E Gaebler O II Muntwyler E and Myers V C Alkalosis in Patients with Peptic Ulcer Arch Int Med 1928 xl 79

The first detailed observations concerning the in toucation produced by the admini tration of large amounts of alkuli in the Sippy treatment were proted in 1923 by Hardt and Rivers who called attention to the fact that patients with Iusdenal utker treated by this method may develop definite symptoms of tourning associated with renal changes increased blood urea and normal or increased com

bining power of the plasma. Soon thereafter Brown Rowntree and others from the May o Chine published a report concerning toxamia occurring in yillow and diudenal obstruction. They stated that the dome uniary changes pathognomous changes in the chemistry of the blood a decrease in renal function and in cases of death pathological changes in the kidney. A comparison of the findings of diudental toxamia with the foreign encountered in suggested that the alkalosas might be quite as important an etological factor in the toxamia with declaration as the supposed specific town absorbed from the gastro intesting that

As sodium bearbonate is responsible for the alkalosis in most instances an effort has been made to neutralize the hydrochlore and by other antacids Greenwald suggested tertiary phosphates of magnesium and calcium Symptoms of alkalosis were not observed following the use of these salts although they were shown to act efficiently in neutralizing

the hydrochloric acid

The earlier reports on alkalosis did not include the estimation of the bydrogen 100 concentration of the blood although when the carbon diovide combining power was estimated it was found to be bigh Apparently the first determinations of the hydrogen on concentration of the blood in alkalosis due to the administration of sed dum bicarbonate were made in 100 and 100 are set of the concentration of the blood in alkalosis due to the administration of sed dum bicarbonate were made in 100 and 100 are set of the concentration of the control of the

Poisoning by sodium bicarbonate causes nervous ness and tritability followed by headache nausea vomiting vertigo aching pains in the muscles and the joints weakness progressing to absolute prostration drowsness from which the patient can be aroused only with difficulty and finally tetany and convoil

sions

Uramic symptoms with epileptiform convulsions occurring in pyloric obstruction in patients who were not given alkahes were attributed by Houghton and Venaleles to loss of hydrochloric acid in the vomitus and a toxic degenerative nephritis with retention of nitrogen These writers emphasized the nitrogen retention in the blood rather than the alkalæmia Their laborator, data included only figures for the blood urea. In all of their cases the blood urea was elevated By some the toxic nephritis has been attrib uted to a specific toxin entering the circulation from the wall of the obstructed duodenum but the increase in the urea and non protein nitrogen in the blood has been observed in marked alkalosis in patients both with and without obstruction It seems likely that at least a part of the increase in the non-protein mitrogen is due to a systemic change with excessive protein destruction rather than to renal retention although in most severe forms of alkalosis a well

defined nephritis occurs as one of the complications of the interaction

In a recent study of forty one cases of peptic where under Sippy treatment Jordan found that in the small percentage that presented clinical signs of illularmat the carbon drovi e content of the Hood showed a markel true the culcium contin tendel of to rise and the plasma chlon le decreised. The level of the carbon divide content at which symptoms appeared in these cases was , per execut by a lamb the significant of the content at the symptoms of the significant of

In a study of forty we cases of paptic wher installs with allikes Cates and in this seconties found a definite correlation between the silkalism and a group of clinical symptoms that were cheefts necrous in character. In almost two third of the cases the blood at wome, time showed a high carbon disvoke content or hidrogen on concentration or 1 th and lectivone the howed an uncompensated alkaly is full-extrement. In legacy, no in concentration whiles of a feet many time that the case the concentration whiles of a security of the cases the content of the cases the case of the c

In a study of the plasmy the ries it was found that in ten et as in which the extraord distinction was high the plasmy chlorides averaged 55 mgm per occ cm is completed with an evertice of our information of the ries which is set in the ries which is the difference being 33 mgm Chimcally the disagreeable as improved of skall was also been seen to be supported with a study of the study of the ries when the ries was a firmform of what was noted when so hum their te was a firmatic red especially when it was given intracromatic.

When alkalies are used in such amounts we trecommonly employed in the treatment of peptiulter by the Sippy method characteristic changes in the blood chemistry are almost alman sproduced even though the symptoms of alkalosis serva notoccur. When calcium carbonates and magnesium order are employed without sochum in the resultance of the complexity of the complexity of medicine is symptoms of alkalosis are unlikely to appear especially if the complexitions of obstruction and comming of not occur. The changes produced by the alkalies are most myrked at the end of the day During the night the conduction tends to return

In the authors study there was no definite eviclence that the alkalænua in the degree oh erved was

productive of renal damage
In endusion the authors emphasize the importance of admin terms, mater and sodium chimrile to patients suffering from aliabose especially as a pre-operative and protoperative glossoperative and patients with the productive sufficient sufficient productive sufficient productive sufficient productive sufficient productive sufficient suf

MANUEL L LIGHTENSTEIN M D

Pólyn J Surgery of Gastrie Duodenal and le Junal Ulcer (Die Chirurgie des Magen Duodenal und Jejunumgeschwueres) Therapia 1928 v 1

There is no difference of opinion between intern 1514 and surgeons as to the necessity of operation in cases of perforation into the free al lominal cavity or cases of so calle i to lanc steno is which a wall. a duo lenal stenosis. Operati in is generally believed to be in licrited all o in eases of absce ses instule re sulting from the perforation of a pet tie ulcer h ur glass stomach and the less well known sac stomach tshrinkage of the lesser curvature resulting in approximation of the pylorus to the entiles without shortening of the prester curvature) conditions which offer as much abstruction to the pa sage of the food as polyric or duodenal stenosis. On the other han! the advisability of surgical intervention in acute ulcer hemorrhage i debatable. The diffi culties in the diagnosis as well as those are ing during the course of one ration must be taken into ronsi lera tion. The discovery of the bleeding point and arrest of the hemorrhage after the point is foun I may often be mo i difficult or at least require a procedure which the exsanguinate | exhausted patient can scarcely he expected to withstand. On the other hand mo t ulcer hemorrhages cerse pontaneously if the ero led vessel is not a large one and if it is a large one surgical assistance is usually too late. Therefore during an acute hamorthree from ulcer and during the acute anemia which results from it operation should be avoided if possible. The question to be decided most frequently however is whether an uker which produces none of the complications mentioned but only puin or constant amall or profu e recurrent ha morrhages should be operated upon

Unfortunated, the pathogeness of uler dreams in not vet well understool and treatment even surgest treatment is essentially empirical although as a to toke with much better informed as to the contract of the pathogeness of the contract of the vet were a few vers ago. The consumentable which have been recommended for excussion of exclusion of the peptic uler have a more or test production afficiency of the contract of the stormer's and the stormer's and the first must be lorned to the contract of the stormer's and the first must be lorned with a stormer's and the s

stoo in the determination of the operability of a green case.

Linka well as experience as well as experimental control of the control of the

cases must be carefully selected for the operation as the procedure is too formulable to be permissible when there are only mild disturbances or doubtful

findings

For callous ulcers especially of the stomach and for all types of ulrer of the jejunum operation is definitely indicated on account of the danger of cancer Conservative treatment is warranted most frequently in cases of duodenal ulcer. If the pa tient with a duodenal ulcer reacts well to diet and medical treatment and thereafter remains well and able to work operation is not advisable. On the other hand when the condition responds to internal treatment only slightly or not at all when the dis turbance recurs quickly when the diet must be such as lessens the patient's capacity for work and when there is continuous or recurring hamorrhage with the danger of developing morphisms and a roentgenologically demonstrable severe lesson such as perforation or stenosis surgical treatment is imperative

Coffey R G Chronic Peptic Ulcer Record of a Personal Experience J is If iss 1928 xci x The author reviews his results in a series of 471

cases of ulcer operated upon in a period of twenty four years The mortality of 375 gastro enteros tomies was 2.4 per cent and that of 96 operations other than gastro enterostomy 17 4 per cent The iliscrepancy is more apparent than real however as the gastro-enterostomics were performed largely for duodenal ulcer which is less serious than gastric ulcer and the cases in which radical operations were done included most of the gastric and bleeding ulcers

In 1917 appalled by his early mortality the author turned to more conservative procedures. He therefore divides his series into 147 cases treated before and 324 cases treated since 1917 The mor tality in the recent group was 2 46 per cent where as the total mortality for twenty four years in 471 cases was 4 2 per cent. In 201 recent gastro enteros tomies the mortality was 1 7 per cent as compared with 34 per cent in the entire stries of gastro enterostomics. In the recent period, 30 operations other than gastro enterostomy resulted in 3 deaths but these fatalities were those of patients with syphili alcoholism or anamia

In the author's opinion the results obtained in cases of duo tenal ulcer by excuson combined with gastro enterostomy are no better than the e ob tuned by gastro enterostomy alone even in cases of bleeding ulter. For early ulters he advocates the Sippy treatment with the removal of infectious focr but he believes that in cases of fong standing ulker surgery is necessary. In the latter gastro enteres. tomy facilitates emptying of the stomach dilution

of jusces and rest of the ulcer

The author's gastro enterostomy technique is a composite of others One of several incresions is used An anterior duodenal ulcer is covered with omentum or exci edd efore the ga tro enterostomy r done but

of a gastric ulcer is to be excised the gastro enteros tomy is done first so that excision may be postponed if necessary The stomach is drawn through the mesocolon to the left of the middle color artery and grasped with Allis forceps near the lowest point of the greater curvature and again caudad and toward the middle of the stomach. The jejunum is directed toward the left and grasped with Allis forceps Two lmen traction sutures at the sites of the angles of the future anastomosis are secured to a Lang traction suture frame Two posterior rows of in terrupted sutures of fine linen are placed near the mesentenc border After the incisions for the anastomosis have been made a continuous lock statch of double No o chromic catgut including all the lavers is introduced. This stitch is begun at the end of the incision nearest the operator and is con tunued almost around the front half of the anastomo sis In the closure of the last half inch of the incision the right angle statch is necessary. For strength in harmostasis the continuous running catgut suture is usually returned across the front line. An anterior row of interrupted linen sutures is then introduced The mesocolon is attached to the stomach and if long enough is also sutured across the anastomosis to the jejunum BURTON CLARK JR M D

Tanasesco Two Hundred and Twenty Six Opera tions for Gastric or Duodenal Ulcer (226 op(rations pour alcère gastrique ou duodenal) Bull et mem Soc not de chie 1928 lis 935

The statistics on a series of gastric operations for ulcer are given in detail. The total operative mor tality was 6 to per cent

In 104 cases of pylonic ulcer the author performed 46 simple posterior gastro enterostomies 48 gastro enterostomie with exclusion of the pylorus by liga tion and it gastrons lorectomies

In the 46 cases of simple gastro enterostomy the mortality was 434 per cent. Of 19 patients who could be followed for periods ranging from one to seven years 57 8 per cent were cured 15 71 per cent were benefited and 63 per cent had received no benefit

In the 48 cases treated by gastro enterostomy with exclusion of the pylorus the immediate mortality was 4 r6 per cent. Of 10 patients who were seen again during the next seven years following the treat ment 55 5 per cent were cured 14 8 per cent were benefited and 20 6 per cent were not benefited In the 17 cases in which a gastropylorectomy was

done the mortality was 9 09 per cent. The technique employed was the following Billroth II 8 cases kroenlein Vikulicz r case lolya r case and Finsterer 1 case Of the 6 patients who could be followed all were cure !

In 55 cases of duodenal ulcer 21 simple gastro enterostomies 29 gastro-enterostomies with exclu sion of the pylorus and 5 gastropylorectomies were done There were no deaths in any of these cases

Of the rr patients treated by simple gastro-enteros toms who could be traced 72 per cent were cured of per cent were benefited and 18 pee cent were not Of 16 patients treated by gastro enterestomy with

benefiteil

exclusion of the pylorus who returned for observa tion within a period of seven years go per cent were cured 18 7 per cent were benefited and 31 per cent were not benefited. One of these who were not henefited developed a jejunal ulcer another was treated by enervation (I atarjet s operation)

Of the 4 nationts treated by gastropylorectomy who could be traced 3 were cured and 1 was benefited These patients could not be trace I after

two vears Of 53 cases of ulcer of the lesser curvature 22 were treated by gastro-enterostumy 13 by resection with longitudinal suture 3 by resection with gastro enterostomy 6 by cautenzation (Balfour) and 2

by gastrectomy In the 24 eases in which gastro enterestomy was done there was a mortality of 22 5 per cent Of the 17 patients who were traced 47 per cent were cured 11 7 per cent benefited and 41 per cent unrelieved This group proves as has been elaimed by Hart mann that gastro enteroxtomy is of value in eases of ulcer of the body of the stomach even when the pylorus is patent

In the 13 cases of saddle resection of the lesser curvature the mortality was 15 33 per cent Of the 11 patients followed up 2 were cured 4 were benefited and a were not benefited. The period of observation ranged from eighteen months to five years One patient with a poor result was cured by gastro-enterostumy From these cases at appears that resection alone is a poor operation and should

be combined with gistro enterostoms In the 3 cases which were treated by resection with gastro-enterostomy there were 2 cures and 1

death Of the 6 patients treated by the eautery method of Ballour 1 died Of the others 1 was cured 2 were benefited and a were not benefited. In these cases

the period of observation ranged up to six years In the 7 cases treated by gastrectomy there were a deaths and a complete cures

The more radical operations evidently give the best late results but their mortality is high I wo jejunal ulcers which occurred six and seven

years after gastro enterostomy were cured by gastro evlorectomy and a 1 anastomosis Six cases of multiple ulcer were treated variously In a cases a gastro-enterostomy was done and the patients were found to be cure i when seen two three and four years respectively after the operation In each ease there was a pylonic ulcer combined with

s or more ulcers of the lesser curvature. One natient was treated by cauterization and another by local resection and gastro-enterostomy but neither could be traced subsequently In 1 case a segmen tary resection (Kroenlein Mikuficz) gave a good result after three months

Of a patients with isolated ulcers of the lesser cur vature who were treated by gastro enterostomy a was cured and r was benefited for four and it years respectively and a could not be traced In hour glass stomach was cured (one year) by

gastrogastrostems ALBERT I DE CROST ALD

Lake N (The later Results of Partial Cas trectomy Lo cel 1018 ccxv 268

The surgical procedures possible in the treatment of non malignant ulceration of the stomach a e (1) posterior gastro-enterostomy (2) anterior gastro enterestomy (1) gastro enterestomy with pylone exclusion or entero-anastomosis (4) hinney s opera tion (5) local excision by knife or cautery (6) local excession and gastro enterostomy () leeve reser tion (8) partial gastrectomy (Billroth I and II f of a and its modifications? (o) sesunostoms and (10) denervation Of these the author compares only gustro enterostomy and partial gastrectomy the indications for the others falling outside the scope of the prticle

The cases reviewed were treated in the remod from 1922 to 1927 The total number of gastric operations was 227 Sixty five of the operations were partial gastrectomics and 71 were gastro-enterostomes However the percentage of ga trectomies rose from 5 in the cases treated during 1022 to 62 in those treated during 1927 The results of gastro enteres tomy and partial gastrectomy for simple ulcer are summarized as follows

Per PURTIAL GASTRECTORY Satı factory ++ 76 95 Sat factory -Sati la tory 2 5 Unsatt factory Unsati factory +

GASTRO-ENTLROSTONY Satt factory ++ Satı factory + Sati factory 12 Unsate factory

Unvatiblact ty + All of the patients subjected to gastrectomy have

gained weight since the operation and look remark ably healthy fractional test meals were carried out shortly after the operation in practically all eases and with one exception showed complete achlorby dria. Trac

tional test meals after an interval of several years demonstrated quite conclusively that the achier hydria is permanent. None showed the slightest trace of free hydrochloric acid. The average total acul was less than 10 In the absence of bile the average total chlorides was 20 and when bile was present over 70 Bacteriological examination of the teeth gums

tonsils and throat in a series of cases yielded streptococce in several but in no case were the microorganisms harmolytic

In the cases in which gastrectomy was done there is no sign of primary andmia although the hemoglobin and color index are rather below normal. The total l'eucocy te count is normal but the polymorpho nuclears are perhaps slightly low. The author con cludes therefore that these cases present no indica tion of a deleterious effect of achlorhy dria upon the blood count

On the whole it seems that there is no indication that gastrectomy is followed by remote deleterious

In most of the cases general anasthesia was in duced by the intratracheal administration of ether or chloroform Lake calls attention to the fact that almost all pa

tients with a long history present evidence of mul tiple ulcers either active or healed and that in such cases we are dealing not with a lesion of local origin but with a condition of the stomach which predis poses to ulceration and of which the ulcer itself is but a manife tation. The occurrence of jejunal ulcera tion after gastro enterostomy for ulcer and the ah sence of such ulceration after the same operation for carcinoma favor the view that the contents of the stomach are responsible

Partial gastrectomy is the only operation which removes the cause of the ulceration in the majority of cases and can be trusted to result in permanent cure However the author does not perform it in all cases of gastric and duodenal ulceration Early cases he treats medically in the hope that some change may thus he effected in the secretory activities of the stomach. He believes that in cases of simple duodenal ulceration with a short history partial gastrectomy is unnecessarily severe when a sale gastro enterostomy so frequently relieves the symp toms In such cases the acid content is not always high and may therefore be sufficiently reduced by partial neutralization. However if the pre operative test meal reveals a high acid content it is probably wise even in these cases to perform a partial gas trectomy in order to prevent further ulceration

CARL R STEINER M D

Rankin F W An Aseptic Method of Intestsnat Anastomosis Si g Gynec & Obst 1928 xivn 78

According to findings made by Halsted Mall Hertzler and others with regard to the healing of intestinal wounds regenerative changes demonstrate that if there is no infection, the healing of the neri toneal wound takes place by direct transformation of lymph into connective tissue without the granu lation tissue stage Another observation that has proved of aid in intestinal anastomosis is the occur rence of agglutination of the resected ends of the intestines when firm pressure is applied. Mall's experiments showed that under pressure the dia phragm formed by the turning in of the margins becomes destroyed by necrosis and at the end of the fifth day the slough separates usually leaving a clean surface At the end of about three weeks the mus cularis mucosæ is completely regenerated and the raw surfaces of the anastomosi are covered over The sloughing away of this diaphragm sometimes

has been accompanied by secondary hæmorrhage

which occasionally has been fatal but this is excep tionally rare Quick healing of intestinal wounds occurs when the peritoncal surfaces are approxi mated and the sutures are placed only deep enough to catch the submucosa the most important struc ture in the anastomosis

The author has devised a clamp which may be a valuable addition to the surgeon s armamentarium Among its advantages are simplicity of arrangement and ease of application and manipulation Rankin has found it of great aid in joining the large bowel end to end or side to side and the large and small howel end to end and has used it successfully in twelve resections of the colon in which these three types of anastomosis were carried out Secondary hamorrhage or the formation of a diaphragm in the lumen has not occurred in any of the cases

The instrument is a three bladed clamp sufficiently short for adaptability and readily mobile. The central blade is the fixed point against which the two lateral blades operate independently. The fulcrum which permits steady pressure is in the handle there is a fulcrum on each side of the clamp. The length of the entire clamp from tip to tip is 22 5 cm. Each blade is cm long and the central blade is o cm wide The blade portion when closed is 8 mm deep When the clamp is in use the posterior peri toneal coats of the two arms of the bowel are in di rect approximation separated only o 5 cm by the central blade and the antenor surfaces of the two limbs of the bowel to be anastomosed are separated hy the entire thickness of the clamp. After the application of the suture which covers the point of the clamp but 1 not drawn tight over the handle portion until the latter is withdrawn the limbs of the resected ends are kept in accurate appos ition by firm pressure and agglutination withdrawal of the clamp the end suture is put in and the whole line of sutures on the anterior surface is drawn taut without causing contamination. The duaphragm must be broken out with the fingers through the lumen

Control of hamorrhage is dependent upon crush ing of the vessels Secondary hemorrhage has not occurred in the cases in which the author has used the clamp and he believes it is a much overestimated danger in closed anistomosis. The formation of a dianhragm after the operation has not been observed in the experimental laboratory nor in a series of re sections in clinical cases

In practically all cases in which an operation is performed on the left segment of the colon for a lesion that has produced long standing obstruction a two stage resection should be done. In the right segment of the colon it may sometimes be advi able to perform the one stage operation. However car cinoma in either arm of the colon presents a some what different problem from tuberculosis stasis and other lesions requiring surgical intervention and the author has come to the conclusion that all carcino mata of the colon which cause obstruction should be operated upon in two stages

A successful result following resection and ansitionosis of the large bowel especially in maligningprobably depends more upon adequate pre-operative preparative and rehal distant measures than on technical procedures. Desegrant of the fact that virulent organism shave a normal habitat in the large bond and increase in number and vurulence when obstruction is present perhaps operates more against the success of operation than any obsertation. Con equently adequate pre-operative perplators con equently adequate pre-operative perplation of the present procedures and a diet consist ing mostly of carobolysticase and first process which leave little resulte greatly increases the chances of satisfactor, recover.

Highly satisfactory departures from the usual counter are graded operations performed under segmal anaesthesia. Careful selection of cross for resection and the refusal of urgeons to operate in hopelessly advanced cases will lower the operative mortality in the whole group and result in a higher penentage of cures then the tendency to urge operation in cases in which the result will be uncertain. An increase in operability and the institution of more radical measures for resection may be a complished only by

atfention to minute details

Crimault L Double Ulcer of the Duodenum in a Patient Twenty Years of Age Duodenopy torectomy Late Result (Uker doul is tu luo lenum cliez un suject d vingt an duod no pylon ctomic résultat (loging) Bull et mêm Sec mat d chr 1938 km 941.

a zer regas way can be a fact to far man twenty year of age who bull suffered for see ny years with severe information. In the case of the continuous programme when was releved somewhat by eating but became molorable from three to four hours after ments liamatemess occurred at various times and and returnous were frequent. A rapid fost of wight and leterorition of the general conduiton resulting the continuous programme of the great of the continuous programme of the general conduiton resulting the continuous programme of the great of the continuous programme of the general conduiton were found to the continuous programme of the great of the continuous programme of

At operation an indurated ulers of the duodenum the size of a quitter was foun tone fingers breadth from the polorus. Athesous were numerous and the regional lymph neites were enlarged. I phoretomy with section of the duo lenum just beyond the alere was performed and follived by joxterior given enterostomy. The patient has le an uneventful

recovery

I xamination of the resected diso lenum showed two ulcers on opposite walls (the lassing ulcer of

the English)
In the three years since the operation the patient
has hail no recurrence of his symptoms although his

diet has never been restricted
In the di cussion of this case. Crimault states that
the youth of the patient was not exceptional as

there we numerous reports of peptic ulcers in ables cents. In the young honever the condition as usually recognized before the end of complications. Utker has I cent on the relevant in infants. In best toms we usually semily hematements and melens the type of utleers is that who cours with cache we a rule the infant with peptic ulcer is between my and ten weeks of ace.

Icferus accompanying iluo lenal lesions is ol obscure etiology but is probably due to an ascending cholingeitis causeil liv the duolenal infection or to the pressure of adhesions on the common duct

I his form of acterus is of importance rhiefly because

at renders the dragnoss difficult. In conclusion the author states that the frequery of multiple ul ers has not been appreciated until recently. When we tematically looked for multiple ulcers are found often. Delore has reported surveight cases. Lenwick and Pinochietto give the lan elience of multiple ulcers as to per cent. "According to

Mathieu if is 20 per cent ALEXET F DE GROAT M.D.

Monsteret & W. The Surgical Treatment of Diverticultils Feet II J. 1028 n. 41

From the point of view of the surgeon the following two questions are important. (i) In what proportion of cales is diverticulous confined to the that and pelvic coilin? (i) Is diverticulties restricted as a rule to ome himit, i section of the bowel or does it.

usuals mode a considerable length of the closy?

Of the last roo consecutive cares of discret ulosisseen by the author the condition by a discretification of the condition by a discretification at 1 or mote points in 16. In oil, 3 cases were the hypertrophic changes confined to the data, and pelvic coloni creditions!

In 1 of the to case in the price with the creation in older data coloni as associated in the creation in older colonic creation of the creation of the colonic data price that the colonic had by the colonic creation of the creation of the colonic data of the coloni

Discrinulates is of 5 to 1 s. (1) acute discrinulates (2) chronic discrinulates (3) a ute perforative discrinulates (4) chronic perforative discrinulates

and (5) diverticulti with stenosi

Aute diverticulities of a tiers subacute. Vague abdominal pain increa es in severity until at the end of about forty eight hours, the patient is acutely all with severe localized J un pyrevia, and an increased pulse rate. On examination, a large and extremely tender tumor is found a unally in the left lower por

The chroni form of diverticulties is the most common form. The symptoms are abdominal discommon form.

ment less often pass in the lost of motivation to the content of about the unblutus but expecting to the left than form general flatulence a feeling of di tention and constitution irregulanty of the bosel movements diarrhear or a sense of incomplete exacus ton Occasionalli where is hemorrhage from the rectum. Except in obese persons a sausage shapel tumor cus be felt in the left thate fo

Actite perforation may be the initial sign of diverticulitis. In the 4 cases of perforation in which the author has operated the duration of the symptoms before operation was six bours thirty six bours four days and one week. In a case the perforation of curred in the transverse color curred in the transverse color curred in the perforation of the sequela of perforation are similar to those follow me perforation of the appendix. The pertonuties so of

a severe type and may or may not become localized Cases of chome perforation are those in which there is no sudden flooding of the peritoneum the perforation is shut of before it is complete and the typical sequel is an abscess. The candition is better the second of the perforation which have set if we place in this group the cases in which no single gross perforation is demonstrately the the group will cake all cases of so called percolution sinister and form the largest group treated surgically. Six of the

author a cases were of this type

Diverticulitis with stenois is characterized by attacks of fatulent distintion with colic Such at tacks are comparatively frequent in chrone diverticulitis. Fusually, they are subacute and ean be warded off by diet. A physician who was subject to them was completely relieved during a month spent in Barcelona when be ate food cooked in oil as is the eastion there. By continuing the same type of the custom there. By continuing the same type of Monsarrat's series of cases there were a of persist ent subacute obstruction from stenois.

With regard to surgical treatment the author states that in acute diverticulties without complications no operation should be done unless unequivocal uses no operation should be done unless unequivocal uses of abone length of colors would be difficult and dan of a beginning to the control of a bing length of colors would be difficult and dan in the color of the inflamed bowel by wrapping it with omenatum is unnecessary as the bowel can be tristed to socialist suell by additions. Exploration for a suspected absects would probably leave a facal fistule. One duty of the surgion is to be on guard for general and total growth of the color of the acute attack is concerned.

Gordon Watson has said In these acute cases colostomy will olten be necessary and again In the absence of a definite absence sactive inflammation subsides with surprising rapidity after colostomy

Chronic diverticulitis without complications is not a surgical disease but if operation is performed for suspected neoplasm the affected out should be lifted out of the pelvis and wrapped with omentum in order to prevent the occurrence of a perforation of the bladder if an abscess forms later

Acute perforation is not likely to be diagnosed ac curately before operation. It should therefore be borne in mind when the abdomen is opened on ac count of acute personatts of uncertain origin. The perforated diverticulum should be excised the bowel wall invaginated and dramage established as may be necessary. The infection is apt to be of a severe type necessary.

In subacute and chronic perforation it is best to wait until the abscess is well defined and to confine surgical treatment strictly to evacuation of the abscess and dramage of its site. To obtain healing it is unnecessary to search for a sloughed or perforated disperticulum.

The treatment of stenosis which is known definite by to be secondary to diverticulities depends upon the requirements of the particular case. In this condition there is no such clear indication for operation as in cancer in which it is known with certainty that the stenosis will be propersist.

Acchard Mulmerly asset. Early recognition of the disease of the full minerity asset of the disease of the disea

The first question to answer in any given case of diverticulities is whether operation is necessary or not. If the patient is suffering in spite of treatment from a recurring attack of subacute obstruction with giping pain distention and constipation operation is undoubtedly indicated.

If the disease is so situated and so localized that resection is easy resection is sub-operation of choice resection is easy resection is the operation of choice but when anastomosis would be impossible it is unjustifiable to subject the patient to an extremise operation involving risks imasmuch as in colostomy we have a remedy for the disease which offers a fairst prospect of cure. In stenosis of the pelvic colon colostomy in the transverse colon seems to be thehest procedure when resection is impossible. On account of the usual site of the disease a short circuit ing operation will rarely be feasible but under favor able conditions is preferable to colostomy.

In 3 cases reviewed by the author-1 of which was treated by resection 1 by colostomy and 1 by diver sion—the indication for operation was clear. A bor derline case in which the necessity for operation was debatable was that of a man sixty one years of age who was oot a good surgical risk and had been oper ated upon two years previously for a supposed neo plasm causing constipation recurring griping pain and distention The sequel is interesting as showing that the stenosis is not necessarily progressive. To day although nothing was done the attacks are less severe and recent roentgenological examination shows the stenosis to be definitely less marked than two years ago The diverticulitis and constriction involve the distal part of the pelvic colon but diver ticula are present throughout the sigmoid loop and in the lower part of the descending colon. As the symptoms at present show no tendency to increase in severity the author advises against surgical treat

ment but he is of the opinion that if operation should become necessary colostomy would be the procedure of choice

In chronic diverticulitis with stenosis resection will be employed more and more frequently and except in a very few cases will always be extensive Resection must go wide not only of the area of diverticulities but also of any associated diverticu-The portion of bowel chosen for the anastomosis must be free from developed diverticula. This must be proved roentgenologically as the presence of diverticula in a fat laden howel is hable to be overlooked at laparotomy. Before the indication for resection can be settled the value of colostomy in these cases of stenosis must be estimated. It is nos sible that if the bowel were kept empty by colostomy the inflammatory condition might subside and the stenosis resolve. In cases of stenosis which are obviously unfavorable for resection colostomy is the method to be recommended as it offers a fair pros nect of cure JOHN J MALO LY M'D

Gardham A J Choyce C C and Randall M Directiculosis of the Appendix and Pseudo myzoma Peritonel Brit J S et 1928 xxi 62

GARDHAM states that diverticulosis of the appendix seems to be telated to recudomy roma of the peritoneum which is a more rate condition. In cases of pseudomyxoma originating in the appendix di verticula have been found when the appendix has been fully investigated Neumann found diverticula in four of eight cases of pseudomyzoma. It there fore appears that pseudomyzoma frequently follows divetticulosis Because of the repeated mild at tacks the conclusion is drawn that the diverticula are formed as a result of the destruction of small areas of the muscular layer by interstitial abscesses during an attack of appendicitis. In this process the mucous membrane is not destroyed With destruc tion of the mucous membrane perforation takes place

Repeated attacks lead either to perforation of the diverticulum or its operative removal. In a minority of cases the inflammation subsides sufficiently to allow perforation of the diverticulum without ab s ess formation. These are the cases which develop pseudomyzoma. The finding of an omental mass in many of the early cases and the fact that pseudo myzomatous nodules in the omentum are regarded as a characteristic early sign indicate that the omen tum is closely connected with the production of pseudomyxoma peritonei. In a case reported by Gardham a portion of the mucosa was supplied by vessels from the omentum suggesting that in event of rupture of the diverticulum part of the membrane may retain its connection with the omentum Con tinued production of mucus after removal of the appendix has been observed. The absence of an epithelial hining in the diverticulum in eases of pseudomyxoma peritonei indicates that the di verticulum does not play an active part in the later stages

COUVER states that pseudomyzoms perione is association with perforated ovarian cysts was needly Worth in 1884, but the first case in which the cook tion was associated with a perforated cystic ages that was reported by Fraenkel in 100 Ia 150. Thotter residently mine cases in the literature and one of his own found three varieties of appendicular Alboramist! (1) simple obstruction resulting fine alboramist of in one case from cranimous of the Alboramist of the case from cranimous of the through the appendicular wall and subsequent returns and (3) multiple cystic degeneration of the walf of the amendar.

wall of the appendix

Some cases have been found to be associated with both ovarian cysts and cystic appendix and is one case there was a mucoid collection in an umbiful

Removal of the source and of as much of the breudomy contains unaternal as possible does not necessarily effects a cure. The jells like material either reproduces tuelf or a produced by cells of the appendix or of any implanted in the perioceura. Fortier found chans of cubinal cells but no definite affentification of auch cells has been made. If there implanted cells are responsible for consult if they are the contained to the contained of the contained the contained of the contained the

Roth the overy and appendix should be remoted if they do not appear normal and as much glatious material should be removed as a possible without causing too much damage to the peritoseum. Draininge as confira indicated as in many of the early cases in which it was established the patient died.

RANDALL reports the case of a man seventy-one sears of age who was admitted to the hospital com plaining of general weakness and great abdomn's enlargement and distress Three years previously he bad an attack of ahdominal pain with subsequent gradual enlargement of the abdomen Examination showed the abdomen to be uniformly enlarged the skin not shiny and the tension not great. The en largement was sufficient to cause a direct forward projection of about 3 in from the costal margin There was no resonance Throughout the abdomen a sluggesh fluid thrill was noted Exploratory punc ture below the umbilious withdrew only a small amount of thick gelatinous fluid Trotter who was asked to see the case made a diagnosis of my rom atous eyst originating from the appendix

At operation a fuge eavity fitted with fulk stringy mustod material was bound. Twenty quants of this material were removed. The days after the operation the patient dued. Autopsy receiled the presence of a huge thick walled cyst which extended to every receis of the bebomen and was adherent to every receis of the bebomen and was adherent to have discounted the critical properties of the control of the cyst to be an extended when the passed through the cyst tool wall in a from the try. The try was free in the cavity and was perforted. The contents of the cyst were assumed to

be the secretions of the appendix during the years since the first symptoms

Eliason E L and Ferguson L k Mortality Factors in Acute Appendicitis Ann Surg 1928

Between 1886 and 1915 many articles on acute appendicitis appeared in the literature but since 1915 there have been relatively few and the mor tality of the condition has increased One cause of the increase in the mortality may be the fact that appendectomy is no longer considered a major procedure and is undertaken by mexperienced operators Another probable cause is the fact that in the past many of the end results of neglected appendictts were charged not to the appendicitis but to permephric abscess liver abscess septic pneumonia etc because before 1915 it was not known that these conditions might be of appendiceal origin Statistics show that the deaths occur in cases of delayed diagnosis when the disease is no longer confined to the appendix The authors review a series of 675 cases in which

the diagnosis was proved by laboratory tests and gross specimens. Operation was performed as soon as the diagnosis was made provided rigidity over shadowed distention and the vascular system was still competent A low blood pressure associated with a high temperature and coldness of the extrem ities was regarded as a contra indication to surgery

the typical case shows that the symptoms have a definite sequence Pain of a colicky or cramp like nature with more or less general distribution begins rather suddenly and continues and increases in intermittent waves. In the beginning there is no rigidity or tenderness. The pain reaches its maximum usually in the first four hours and is referred to the epigastrium or the region of the umbilicus Nausea and comiting follow the primary pain within an hour or two and continue for a short time only I rom four to eight hours after the onset of the disease the pain is more or less constant with exacerbations and becomes localized at McBurney's point tender ness and muscular rigidity are found in this region and the vomiting has ceased From two to six hours after the beginning of the pain the temperature rises usually to from 100 to 101 degrees F the pulse rate is somewhat increased there is an increase in the polymorphonuclear leucocytes and there is a tendency toward constipation and restlessness

In the cases reviewed drainage was necessary most often in the treatment of the youngest and the oldest patients. In the cases of those under five years of age it was necessary in 94 I per cent and in the cases of those over fifty five years of age it was necessary in 100 per cent and the mortality was in creased to 27 8 per cent

Delayed or erroneous diagnoses are often due to the fact that too much importance is attributed to pain tenderness and rigidity at McBurney's point Livingston found typical pain and nguhty in only 75 per cent of his cases and local rigidity in only 50

per cent Gladstone and Wakely found the appendix in the pelvis in 27 5 per cent of 3 000 cases and be hand the execum in 69 2 per cent Inflammation of a pelvic appendix usually causes epigastric pain and rectal tenderness with tenderness over and rigidity of the extreme lower end of the right rectus abdomi ms muscle Pressure over this area frequently causes pain in the epigastrium Appendiceal or secondary pain and tenderness are present at the site occupied by the appendix Inflammation of a retrocæcal appendix therefore causes loss pain and tenderness and inflammation of a pelvic appendix causes rectal pain and low rectus rigidity and tenderness Vomit ing is not a dependable sign. It is especially un reliable in children and older persons. In the aged none of the objective signs indicates the gravity of the condition. The high temperatures occur in the retroperstoneal cases and those in which the con dition develops during or immediately after a pharyngeal or respiratory infection A leucocytosis of 8 000 or more is absent in 20 per cent of the cases Cases with a low leucocy tosis and a high temperature always progress unfavorably

A cathartic given at the onset of the disease will probably do little harm if the diagnosis is made early and appendectomy is performed within from twelve to fourteen hours Cathartics administered early or late with delay of operation are probably responsible for some of the complications and deaths. In certain types of cases perforation occurs very rapidly. In acute appendicitis concurrent with acute tonsillitis the appendix condition progresses rapidly and per foration may occur in from ten to twelve hours Another type in which perforation occurs early is that in which the ulceration is near the base of the

appendix

When the diagnosis of acute appendicitis is made operation should be performed at the earliest possible moment unless the patient has a low blood pressure a high temperature with coldness of the extremities and distention predominating over rigidity associated with diminished pain and a silent abdomen The most frequent complications of ap pendicitis are pentonitis and intestinal obstruction MERLE R HOON M D

Hurst A F Turner T W and Venables J F The Early Diagnosis of Cancer of the Colon and Rectum Lancet 1928 CCXIV 12 5

The early diagnosis of carcinoma of the colon de pends primarily upon the ability of the practitioner to obtain an accurate history and to recognize suspicious symptoms By the time the first symptoms appear the growth is apt to have reached a size sufficient for diagnosis by the \ ray and sig mordoscone The average duration of symptoms in twenty five

cases observed by the authors was ten months The earliest symptoms are abdominal discom

fort or pain and a change in the habitual action of the bowels These two symptoms were present in all of the reported cases The discomfort or pain is localized in the segment of bowel proximal to the obstruction I is a small intestine pain. In eaneer of the account it is fell in the neighborhood of the numbricus in cancer of the account is self-in the neighborhood of the patter flexure on the right safe of the abde men and in cancer of the spellent flexure descending solon and the proximal part of the pelvic colon and the proximal part of the pelvic colon and the proximal part of the pelvic colon to the state of the pelvic colon or pelvinetial flexure is localized in the middle line between the umblicus and the pubber.

The pun due to cancer of the colon is often coli k) and its cessition may connectle with the gurgle which can be heard and felt. The latter is a most significant sign which may enable the patient to localize the site of obstruction with great accuracy,

Some patients with cuncer of the colon complain of duration others of constipution and still others of both conditions. In contrast to carenoma of the stomach cancer of the large bowel rarely causes general symptoms in its early stages. There is at mixt no anama and no loss of weight. The patient may leel quite fit his appetite remaining good and his energy undimin hel.

A barum enema often will show a growth which the of ruge meal fails to reveal. A slight obstruction may lead to only temporary delax in the passage of the enema fluid due to spaam. Sometimes a small tumor may be palpated if the finence reliand the contraction. Faily exists of each of the exercic point of localization. Faily exists of and in obstruction to the passage of an opaque meal or opaque enemal.

The presence of mueus in a solid stool is of no significance but the presence of blood or pus with or without mucus is always an indication for further investigation. If the stool is fluid or semi fluid ul egrative colitis is probably present but if in addition fragments of solid faces are found the con dition responsible is more probably a growth of the pelvi colon or rectum. However visible blood and pus are hardly ever observed when the growth is proximal to the pelvic colon. If the stool is appar ently negative the patient should be gi en a meat and chlorophyl free diet and charcoal and after all of the charcoal has been passed the stools should be examined chemically for occult blood. According to the authors experience occult blood is present in all or almost all specimens in every case of cancer of the stomach and cancer of the colon Occult blood is rarely found in uncompli ated diverti ulitis and never in constipation or diarrhora unaccompanied by organi disease Curiously a local band of adhesions involving the colon may also lead to the constant presence of occult blood in the stools The differ entiation may be impossible but frequently can be made on the basis of a carefully taken history

The authors deplore the fact that the sigmoido scope is not used more generally by other members of the medical profession besides the proctologists In conclusion they state that if all ease of uppected carrinoma of the colon were sent for diagnoswithin a month of the onset of supprism manpatients would doubtless be advised to undergo in operation when the evidence was still inconclusive and the month of the colon of the colon would be more tain compensated for it does would be more tain compensated for it does not be a supprised to the colon of the finitely better prospects of permianent cure presented if the average duration of symptoms whe the patient is sent to the surgeon were one month unstead of tan months. Huan C. Sutrism MD.

Wheeler Sir W I deC Dukes C. Ilodgon H A G Hurse A F and Others Discussion on the Early Diagnosis of Carcinoma of the Rectum and Colon Inc. Roy Soc Med Lesi 1025 233 1443.

WHFILER States that it is common for the surgeo to see the patient with executions of the retum or colon first when a symptoms of scule intestinal distruction and min and the passage of blood mutuand pus indicate terminal and wide published risichanges and that 70 per cent of the exist entering hospitals for the first time are imperable.

Can er of the rectum rectosigmout and dustiportions of the colon should be recognized and with the modern means at our disposal. If operation a performed early, a five year cure is obtained as pier created of the cases of rectal cancer and in over do ere cated of those of cancer of the calon. With moero technique, the operative motitally has been rectued and the color of the calon as with modern and the color of the calon with the extrapated. According to Butling 5 per ceal of the growths remain localized until death

A rectal examination should be made in every cree of abdominal disturbance as the early history of a colonic growth may seem to point to cholecynths or displacement of the uterus and the stimulation of pen tablast caused by a numer in the colon may

produce the symptoms of dispepsia

There is evidence that many carcinomata of the

colon originate in papillomata which may be tevealed by the signoil oscope. If a growth is found in one portion of the colonia tube others may be present higher up and this possibility should be borne in mind by the surgeon at the time of operation.

Ihe's ray examination though important 130-6 milalible and must not be interpreted as settle once and for all the presence or absence of a coloral growth. The most important's ray agen of cases of the colora is a filing delect, next in important's arms in the direction of the 'stocked her with a series in the direction of the 'stocked her with the seen in the barum shadow. All rectal evanisations should be made himsa.

nally Amery per cent of the growths in the rectum rectosugmoid or lower sigmoid can be palpated by this method. The disappearance after an enema of a mass felt in one of these regions should exite rather than dip el suspicion as such a mass my be formed by the collection of faces above a stricture Suspicion should be aroused also when the symptoms of appendicitis are noted on the left side Surgical exploration should be undertaken only when sug gestive symptoms persist and all other means of diagnosis have been exhausted Fischer gives the

following advice I When the X ray picture is negative the test for occult blood is repeatedly positive no tumor is

palpable and the history is suspicious want and repeat the \ ray examination after from four to six weeks When the \ ray picture is not definitely

negative after repeated examinations no tumor can be palpated the test for occult blood is positive and the history is suspicious perform an exploratory laparotomy

When the 'x ray picture is suspicious no tumor is palpable the test for occult blood is negative and the history is suspicious repeat the \ ray examina tion in four weeks and if it is then still suspicious

perform an exploratory laparotomy

In the young cancer of the stomach and sectum is more frequent than cancer of the colon A hyper plastic tuberculous infiltration prohably simulates cancer of the colon more closely than any other condition

Palpation of growths in the hepatic and splenic flexures may be facilitated by palpating with the patient in the erect position. The patient should stand supporting his hands on the bed or a table and the examiner should stand back of him

Blood mucus and pus are very valuable hut late signs in cancer of the bowel. Most reliable is the benzidine test which requires 200 red cells per centi meter. If the bleeding is from the calcum or ascend ing colon an advanced anæmia may simulate permi cious anamia without the appearance of gross blood in the stool A hamoglobin value es low as from 20 to 30 per cent does not contra indicate operation for cancer in this region as it does in the stomach Visible and palpable penstalus is an early sign of obstruction

Any change in the character or type of the stool should be looked upon with suspicion. The lower bowel te ents the presence of a foreign body and re acts to it by a teasing tenesmus

Wheeler draws the following conclusions

In the presence of a growth painful peristalsis of the colon or pyloric spasm immediately after the ingestion of food may lead to the faulty diagnosis of a

lesion in the upper abdomen 2 Cancers of the lower colon and rectum are external cancers from the diagnostic point of view

3 Digital and sigmoidoscopic examinations are made too infrequently Cancers of the hepatic and splenic flexures are

best palpated with the patient in the erect stooping position Persons with cancer develop a certain degree

of immunity but the possibility of more than one independent growth should be considered

6 Palpahle peristalsis is a reliable sign of ob struction in the colon teasing tenesmus is a constant symptom of rectal growths

DUNES in discu sing the pathological phase of early diagnosis emphasizes that patients with adenomatous tumors which can be seen on sigmoidoscopy should be examined with the sig mordoscope frequently as such tumors are often scattered for several inches over the bowel above and below the malignant growth

With regard to the microscopic examination he states that the tissue at the edge of the tumor or ulcer is most apt to reveal the malignant cells

Hopgson points out that the smaller the lesion the more difficult its roentgenographic detection This is true especially if the growth 1 in a wider portion of the colon such as the excum and when the bowel is covered by the shadow of overlying loops as in the hepatic and splenic flexures. In these situations oblique views are essential

Another method for the detection of early malig nant or inflammatory invasions of the bowel wall is the dual exposure. In this procedure two roent genographic exposures are made at intervals of two or three seconds on the same film, the patient ceasing respiration until both exposures have been made and the bowel being distended with warm fluid so that peristaltic action is more frequent than normal I we peristaltic waves can be seen except where the howel wall is diseased. In the diseased area there will be no peristaltic wave and consequently no double shadow. This is the earliest demonstrable Y ray sign of malignancy and can be seen in cases in which the growth is of insufficient size to produce a filling defect

Hurst states that the two earliest symptoms are abdominal discomfort or pain and a change in the habitual action of the bowels. The pain is located in the bowel proximal to the obstruction. If the cancer is in the carcum the pain is in the small in testine whereas if the cancer is in the ascending colon or hepatic flexure the pain is in the right half of the abdomen Cancer in the transverse colon splenic flexure or descending or pelvic colon causes pain on the left side The obstruction may produce a colicky pain and its disappearance may coincide

with a gurgle which can be heard and felt LOCKHART MUMMERY states that the present day earlier diagnosis of cancer of the rectum and colon is due to the more frequent use of the sigmoidoscope and routine examination for occult blood in the

GABRIEL calls attention to the value of routine yearly physical examinations in the discovery of unsuspected colonic and rectal cancer

Normus states that in his opinion a sigmoidoscopic examination should be made in routine exam mations even if it is only slightly indicated

GOULDESBROUGH reports that for fluoroscopic examination of the sigmoid following the injection nf a barrum enema he uses a tilting table

PAUL W SWEET M D

36

LIVER GALL BLADDER PANCREAS AND SPLEEN

Pribram B O Mucoclasis and Surgery of the Billiary Tract without Drainage (Mukoklase and drainagelose Gallenchirurgie) Zenirolik f Chir 1928 by 773

Inham believes that the great majority of surgoons lavor dranage of the abdominal carris in surgery of the bilary tract. Uthough there are certain cases in which smooth personartion is possible and the abdomen may therefore be closed they nevertheless regard it as a fear's safe to insert a dranage tube. The strature on the causes of death following operations on the bilary tract show that in spite of dranage the most common casse of

death is peritonitis The author believes that the direct harm caused by drainage in operations on the biliary tract is geography underestimated and that many of the fatalities should be attributed not to the disease but to the use of drawage and tamponade. The fear of complete closure of the wound insofar as it is bracd upon opening uf the stump of the cystic duct which has been carefully to ered with folds of the serosa of the henaticoduodenal ligament secondary hemorrhage and the escape of bilisty fluid from the liver bed is not justified. There is danger of the escape of bile only when the later bed has been in jured Accordingly when closure of the abdomen is to he done murry of the hver bed must be ab solutely avoided This is possible with certainty only by careful subscrous enucleation of the gall bla ider and then only in some of the uncomplicated cases without severe changes in the wall of the gall blad

To avoid injury of the liver bed under sli circum stances the guthor has adopted the following technique

By means of a suction pump the gril bladdier is ompletely empired of its fluid contents. It is then split in the center from the fundus to the cysne duct and the stones are removed. The exposed cystic duct is dwaded between two lightness. The mucros is then completely empired to the content of the cysne duct is stone on the complete the wall abscesses penetrating stot the liver are destroyed in the same way. By this procedure two folds are obtained. These are to vaganted together with serorecurs intragation 2st terre A sufficient on the cysness of the cys

hepatic duct.

The author calls this proce lare mucoclass. If The author received in the process of the process of the commended especially for complete closure of the wound in complicated cases. Even in cases to which the common bile duct to full of stones or in which can extend a region of the process of the wound of the process of

lutely free he performs a duodenocholecholechol as simple didatation of the paydid dree not pensi permanently. He sloways operates without lusting the hirer chelly because traction on the displacer seems to favor poor ventilation hypostass at the development of pneumona in the lower lobe of the might lung. Moreover he advocates sharp dissection with the excessor ruther than full dissection.

In 200 operations including all types of gill bidder surgery performed on patients ranging in age from seventeen to sevently years there were odeaths from the immediate effects of the operation and in no instance did peritoilits develop. Three of the patients died several weeks after the operations of the patients died several weeks after the operations.

ton

One was a pregnant woman forty one years of ace
who succumbed three weeks after the operation from
acute yellow acroph of the liter but with absolute)
negative findings in the peritoneal cavity and bindle
metative findings in the peritoneal cavity and bindle
who died ten weeks after the operation from
solutary liver abscess the sace of a child of fish while
surrounded an anitrahepatic calculus and was not
accounted at a second laparotomy performed to
the control of the first operation on account of to
timoust fever. The third was a man fifty sere
years of age who died ten weeks after the operation

from suppurative parolitis
In general the convidence following mucclasis was smooth and satisfactory in spite of heat that all of the cases were severe undcomplexed and the patients hall a high fever at the time of its operation. Administration and the patients hall a high fever at the time of the control of the wound but the suther dominates the control of the wound but the suther dominates of the control of the wound but the suther dominates the control of the wound but the suther dominates and other recurrent symptoms. The chief causes of recurrence are calculu life behind patients in introduction of the congested bilary passages; cholongetts citational stenoses at the papilla and possibly its a small percentage of cases purely apassive conditions.

Sherwood W. A. Surgical Leasons of the Billiary Tract Ann St 2 1923 Innum 175

This report 1 based on a study of 200 consecutive cases of surgical lesions of the bihar, tract about 65 per cent of which had been previously ob cried in the out patient department of the Brooklyn llosy fat. The lesions were primarily mechanical and circulatory disturbances rather than of infectious primary.

The most successful results were obtained. In the majority this was due to stones gravel or risposated blate. For the majority this was due to stones, gravel or risposated blate. The effects of obstancts on his stones and with the same number and location of the stones. Stones may be found in (2) the intrahepatic ducts (3) the garting the personnel curvity or (5) the gall baddet?

Stones in the intrahepatic ducts are usually small and commonly described as gravel They cause only partial obstruction of the duct radicles and the ensuing liver damage is confined to a small area Larger stones located in the larger ducts cause in tense engargement of the entire liver and extensive necrosis from back pressure. In some cases there may be an ascending cholangeitis

Stones in the extrahepatic ducts constitute the most serious result of gall stone formation gravity of the condition depends largely upon the completeness of the occlusion Sudden complete obstruction results in obstructive jaundice and necessitates prompt surgical intervention. There is

frequently an ascending cholangeitis

If a stone is impacted in the ampulia of Vater and if the ampulla receives both the bile and pancreatic ducts either the retrojection of bile into the pancreas or the escape of pancreatic enzymes may result in hæmorrhagic necrosis of the pancreas Hæmorrhagic nancreatitis is a frequent complication of biliary obstruction and inflammatory disturbance

Stones in the gastro intestinal canal were found in 4 cases of partial or complete intestinal oh struction observed in the Brooklyn Hospital in the The location of the fistulæ was past few years variable but the large size of the stones indicated

that they had their origin in the gall bladder

Stones in the peritoneal cavity were found in 3 of the cases reviewed. In 2 the rupture bad apparently occurred spontaneously with httle or no evidence of pathological changes in the gall bladder and the ensuing peritoritis was only a transitory chemical reaction to the irritation of the bile. In r

case the gall bladder was gangrenous

Stones in the gall bladder may or may not be accompanied by symptoms or appreciable patho logical changes in that organ or other parts of the biliary tract but they are always a potential source of danger Cultures from freshly removed gall bladders contuning stones are frequently negative and stained sections of walls of the gall bladder often show none of the characteristic changes associated with infection When pathological changes are easily recognized they appear to be the result of mechanical and circulatory disturbances due to the presence of a foreign body which as a rule is im pacted in the cystic duct. A secondary infection often develops as a result of the presence of stones but the author disagrees with those who maintain that gall stones do not develop in the absence of an infected medium and that they are invariably the result of bacterial invasion. He believes that the primary factor in the etiology of cholelithiasis is a disturbance of body chemistry in relation particulation lurly to cholesterol and calcium metabolism. This view is supported by the recent investigations of

Gradual occlusion of the cystic duct by a stone appears usually to result in mucous hydrops of the gall bladder Sudden occlusion causes marked ordems and hamorrhage into the cavity or between

the layers of the wall Repetition of this process causes fibrosis of the wall First there is interference with the venous circulation and later when the condition becomes more severe the arterial supply is impaired and partial or complete infarction or gangrene occurs depending upon the degree of the occlusion or thrombosis

When the gall bladder shows obvious pathological changes in the absence of stones it is assumed that the cause of the changes was the previous presence

and passage of calculi

In the author's opinion the acute gall bladder condition is not similar to acute appendicitis as the constitutional symptoms temperature blood pic ture pathogenesis and bacteriology are in no way analogous In acute conditions of the gall blad der even when perforation has occurred with the formation of an intraperitogeal abscess spreading peritoritis rarely develops and the organisms found are of a different strain and type than those present in suppurative lesions of the appendix Empyema of the gall bladder bas often shown negative cultures and smears

The author's chronic cases in which no stones were found showed fibrosis and involution atrophy of the gall bladder wall which were believed to be the result of prolonged venous stasis of mechanical Pathological examination in these cases

failed to demonstrate the presence of infection Only the acute cases reviewed were treated as surgical emergencies The others received con servative treatment this policy having been adopted at the outset for the following reasons

Because it is safer to permit the average acute gall bladder condition to subside before operation is

undertaken 2 In suspected biliary tract disease sufficient time should be allowed for diagnostic studies and

the determination of the factor of safety

It is believed that by utilizing the various diag postic procedures available it is possible in most instances to make an accurate estimation of the underlying pathological changes to convert a poor operative risk into a comparatively safe one and to carry out the indicated procedure at the best time for the patient

In this analysis several facts are emphasized Stone formation was found in 120 (65 per cent of the cases operated upon) Of 108 X ray studies stones were seen in only 24 (22 per cent) Malignant disease was found in 8 (4 per cent) of the total number Obstruction of the common duct with jaundice was observed in 10 cases (5 per cent of the total number) There was no instance of acci dental injury to the ducts Cholecystectomy was the operation of election but cholecy stostomy or a simple dramage operation was done in all of the acute cases as an emergency measure. The author advocates more frequent use of this simpler procedure in the cases of patients who are poor risks

a Most complete and permanent relief was obtained by patients with cholelithiasis who sought treatment for repeated pain and edge. These symptoms were associated manuly with the impaction of a stone in the cystic duct or more rarely in the common duct. The condition was not primarily infectious in origin but was due thirdly to mechanical or circulatory disturbinces with ordern harmorrhage hydrops or infarction. Infection when found was thought to be secondary.

The results were least satisfactor; in cases without holelithiasis which presented the sages symptoms that are often ascribed to infection of the gall bindler rather than the severe pain and rothe of cholelithiasis. In cases with only slight fishross or involution, steephy with sages symptoms mon involution steephy with sages symptoms mon the more disagreed steephyllicity and the gall that gall the gall the gall the gall that gall t

Chiray and Pavel How the Call Bladder Fills and Emption Itself (Comment la résicule I d'aire se remplit et comment elle se vale) Presic pil l'ar 1025 xxx 1 259

The classical studies of Odds confirmed by Demid Hummeldhamp demonstrated that the gull bladder fills possibly as the result of an increase of pressure in the ducts produced by closure of the found that the gall bladder remains empty after extent of the splineter. Mann found that after ligation of the cystic duct Bengal red injected nitra years when the gall bladder accordingly direct recreation events to be a factor in the filling of the processing the gall bladder. Accordingly direct recreation events to be a factor in the filling of the pressure size in pinglates have an active part

Until recently investigations with regard to the emptying of the gall bladder dealt mereks with the mucusture. I rom the first studies of Doyon to those of the present time the contractifuly of the glibbladder has been amply proved. Moreover, at he been found recently that certain foods and drugs attendant evacuation of the gill bladder. Boyden of engl and cream for the gill bladder. Boyden of engl and cream for the gill bladder. Boyden of english and cream for the gill bladder. Boyden of english and cream for the gill bladder. Boyden of english gill bladder boyden of english gill bladder. Boyden of english gill bladder boyden for gill bladder. Boyden for gill bladder boyden has the gill bladder. Boyden for gill bladder boyden has been supported by the gill bladder boyden by the gill bladder boyden by directlories and oles and oil of peppersinnt con centrated glucose solution and pattura.

The most active controversy in recent years has acteded about the relation of gall hidder function and the function of the sphincter of Odd. Classon was the first to suspect the presence of a sphincter at the amount of the sphincter as an origin and another than the sphincter as an origin and appear of the sphincter as an origin and the sphincter is a sphincter and the presence of some investigators the sphincter is not present of some investigators the sphincter is not as the relaxation of the duodent wall which produces the periodical cyculation of hie from the ampulla

The authors believe that the sphineter of Oddi is a distinct entity and accept Doyon's original theory of the synergistic innervation of the gall bladder and sphineter They state that the law of rontray increases should be consistered not from the automal but from the physiological standpoint. While on traction of the gill bladder should raws opening of the sphinicist in opening does not necessary lead to contraction of the gill bladder. Thus sub-Joon Melizer test the presence of a sound provide the state of the presence of a sound provide the state of the

Suiphate of magnessum without question reasts the aphanter but site effect on the gall bladder is often negligible a fact suggesting that the Luckets as not a rational procedure. This is suggested also his pharmacody name studies which show that while the aphanter of Odds controls the flow of the into the dwodenium it plays no part in the costinct tono of the gall bladder.

ALBERT F Dr GROST MD

Scott W. J. V. and Whitaker L. R. Expulsion of its Contents as a Function of the Gall Blad der A Chinical Application. J. Am. M. As. 1925 217 0

The lact that partial emptying of the gall blodder occurs after the ingestion of fat it well known Hypothese explaining this fact fall into two group according to whether it is assumed that the full bit liker plays a passive or an active fold. The offimentamed factors suggested are full presentately and according to the control of the conference of the control of the conference of the control of the conmon duct sphinter: and (4) washing out of the full of the control of the contro

bludder by hepatte bile The assumption that variations in intra abdom anal pressure and intestinal peristalsis play a part is dt proved by the fact that the gall bladder remains full alter lasting after the violent struggling of experimental animals subjected to tube feeding and also after agorous peristals is from physostigmine of a barrum or starch meal when it contains indized oil The theory of an obligatory reciprocal mechanism is refuted by the fart that the gall bladder emplies after a fat meal with a rubber tube occluding the common duct sphincter or with a crimula in the cut end of the castic or common duct. With regard to the fourth factor suggested the authors state that concentration of bile in the gall bladder alter the ingestion of lat must occur during the emptying phase and is difficult to reconcile with emptying by washing out with hepatic bile which must produce dilution instead Graham has reported that emptaing does not

occur after occlusion of the hepatic ducts but the authors experience is to the contrary. In two cats the authors ligated all the hepatic ducts as proved later by necropsy and filled the gall bladder with onlized oil. In both partial emptying followed the

ingestion of fat and in one as shown by \ ray examination and necropsy, 90 per cent of the con tents was evacuated

The authors conclude that emptying of the gall bladder in response to fat is an active function of the gall bladder musculature independent of mechanical factors As a corollary they remind us that this is a smooth muscle response and that therefore general conditions influencing smooth muscle tonus must be considered in the interpretation of the motor phase of any cholecystographic senes

BURTON CLARK IR 'U D

Blond k A New Working Hypothesis for Clarks cation of the Gall Bladder Problem (Eine neue Arbeitshypothese zur klaerung der Gallenprobleme) Arch ! kim Chir 1928 crint 662

According to Blond the theory that the gall blad der empties itself by active movement is refuted by the anatomical structure of the valve of Heister by probing irrigation suction pressure and dye ex periments and by the embryological development and vascular supply of the organ and is seemingly supported only by the findings of duodenal sounding and cholecystography

Bile secretion is a function of the liver cells and shows marked qualitative and quantitative fluctu ations The gall bladder is the reservoir for the stor age of the constituents of the bile which are so neces sary for the bodily economy. In response to the stimulation of the food which reaches the duodenum the liver obtains the various constituents necessary for the formation of bile from the cystic veins and the portal vein (intermediary bile circulation)

Function of the sphincter of Oddiin the prevention of the flow of bile from the common duct during the intervals between digestion is unnecessary since when at rest the duodenum has an internal pressure greater than the secretion pressure of the liver cells

The quantity as well as the composition of the bile entering the duodenum is also dependent upon the liver cells not upon the gall hladder. The healths mucous membrane of the gall bladder absorbs the various constituents of the normal bile and turns them hack to the liver. The physiological course of this absorption the flow of venous blood from the gall bladder to the liver and the reflexes which come from the duodenal mucosa are controlled by the nerves of the gall bladder

The stomach duodenum gall bladder and pancreas constitute a functional unit and must be considered a unit also from the standpoint of thera peutics The colic of duodenal ulcer 1 of the same character as gall stone colic and the latter may be associated with duodenal cramps. The site of the cramps establishes the clinical picture Cholecyst itis cholelithiasis and pancreatitis begin with a functional sterosis in the duodenum In So per cent of the cases of cholecystitis and cholebthrisis pan creatitis is also present Cholecy stitis cholelithiasis contracted gall bladder and hydrops are the results of infection of the gall bladder which hinders phys

iological absorption. Injuries of the bile passages and pancreas induced by gastro enterostomy and resection of the stomach also play an important rôle since they interfere with the normal duodenal flow In Blond's opinion the operative removal of the

gall bladder 25 indicated only when all other methods have failed and the resorption power of the gall bladder mucosa has been practically destroyed BODE (Z)

Deaver J B The Chronic Gall Bladder Canadian M Ass J 1028 TVIII 666

One of the important functions of the gall bladder is the excretion of concentrated bile through the common duct into the small bowel. It is interference with this function that marks the beginning of so called gall bladder dyspepsia with its immediate and remote sequelæ. Bile stasis may form the nucleus of a stone and stone is the cause of a large percent age of gall bladder troubles. In most cases the cause of interference with the excretory function is infec-The infected gall bladder may become the focus of infection for systemic and cardiovascu far disease. When once infected the gall bladder is always infected

It is a well established fact that next to chronic appendicitis chronic disease of the gall bladder is the most common cause of epigastric discomfort bladder dyspeosia is Movnihan's significant term for the syndrome of flatulence fullness after meals and more or less marked epigastric discomfort which may amount to pain that usually radiates around to the back and up between the shoulder blades This typical pain is not always present in the early cases The stomach soon shows selective action in its intolerance of greasy heavy and acid foods and ats acceptance of a soft bland diet. One of the diffi culties in diagnosis is the proper evaluation of the early symptoms. This difficulty is overcome to some extent by cholecy stography by the Graham method The question arises as to what degree of functional derangement shown by the cholecystogram warrants operative interference Moy nihan goes so far as to advocate the excision of every gall bladder if in the presence of what he calls inaugural symptoms the cholecy stographic shadow is absent its opacity is diminished or its appearance is delayed. The noncalculous gall bladder presents difficulties that are not always solved by the cholecy stogram

The indications for operation are a history of at tacks at first occurring at long intervals but later becoming more frequent and more severe and the presence of tenderness at the site of the lesion 11 at operation the gall bladder is found to be the cause of trouble cholecystectomy is the procedure of choice

In Deaver s opinion cholecy stectomy is preferable to cholecy stostomy whenever it is possible A pa tient treated by cholecystostomy remains subject to the same risk of cholecustic disease with the forma tion of stones and excursions of the latter into the deeper ducts invasion of the liver pancreas etc as before the drainage operation

teme

Recurrence of symptoms after gall bladder operations may be due to the patients I allure to follow a correct postoperative dietative figume to meurathems a calculous disthesis or cettensive and late pathologcal fessors found at the original operation. The contition discovered is a re-operation after cholecystectoms include adhesions persistent chronic infection mixing the parameters stone into other blad ducts in the companies of the control of the control glands along the common duct especially the pland at its junctive with the discleium structure of the common fuct carenoms of the head of the paneress and blainty fistil.

ARTHI & I SHEPPYLES MID

Bérard I and Mallet Cuy P The Physiology and Technique of Cholecystogastrostomy (Lhysiologie et technique de la cholécysto gastrostomie) J de chir 1923 2221 322

Cholecystopatrostomy has always met with opposition, the argument being that it is implyed to prosting the argument being that it is implyed to go the state of t

Fiperimental and clinical results demonstrate definitely that cholecystogastrostomy is the most rational of bilary anastomoses. The American Congress of Surgery of 1914 and the French Congress of 1912 were unanimous on this question.

The chief problems to be solved with regard to the operation are (1) the permeability of the anastoms is (2) the chitacter of the atomach contents (3) the bijary exerction and (4) the chiracter of the

contents of the gall bladder.

Judd has stated that unless the common duct is
completely obstructed the opening between the gall
bladder and the stomach will not be utilized but the
authors have seen blie flow simplitaneously by the

cluct and the anastomosis

The permeability of the anastomosis can be established by repeated tests through the Rehfurs

tablished by repeated tests through the Rehtuss tube. The ordinary reflux of bile from the duodenum is easily distinguished.

Roentgen ray examination gives the following signs

r A diverticulum at the site of the anastomosis Care must be taken not to co ft. e this with the duodenal bulb superimposed on the stortach

2 An air hubble in the gall bladder. This must be distinguished from air in the duode uim or colon. Its appearance may coincide with the reflect of the

opaque meal into the gall bladder

As \(\text{ray} \) externination gives no information con
cening the state of the cystic duct which may be
obliterated both aspiration and roentgenography
must be employed

The chriatter of the gastine contents may be determined with the Rehluss bube. Suches rish the Rehluss tube and the V-ray show that from the physiological standapoint there is nothing agusts colocivistogastrostomy. The form of the stomach little modified in some cases the fasting stomach contains fluid.

The stomach contents remain and regardless of the quartity of bile present. There are great variations in the ancidity but in no case is the quaity of bile sufficient to neutralize the gastine just. In one case a marked hyperacidity was observed. Trequently a continent fistula is obtained in

flow of lule occurring only under stimulation by lood or the usual discolerate control and the plants in the plant

Occasionally reflux of the gastitic content into the gall bridder as observed. To present this a technique has been developed which in no way ownicates the operation. The antrum of the atomath is uncoel transacriety the powerful enrollar flowing that separated to form the mouth of the about his properties of the properties of the control of the cont

In conclusion the authors state that whatever the changes used choleystogratorotomy remains as operation of diversion and not a procedure for an erral dramage. To dram effectively, the anastomous sis should be guing and under such conditions like any libration withers from contact with the strategies of the contract of the contract

Reduced to its true role cholocystogastrostomy is an operation of great value in the treatment of hilizry obstruction and certain painful gall bladder syndromes without stone and without localized holocystiit Light T De Good VI D

Judd E S and Parker B R Billary Intestinal Anastomosis for Obstructive Jaundice Analy also of 137 Consecutive Cases Arch S rg 1928

This article is an analysis of 137 consecutive cases in which anastomosis of the biliary and gastro intestinal tracts was carried out at the Mayo Clinic

in the period from 1919 to 1924 inch is ve Contrary to the usual leaching that painless saundice signifies a malignant condition it was found that bit 75 of the patients with caregrooms of

the pancreas and 66 66 per cent of those with carcinoma of the ducts had pain or colics or both in the series of cases in which it was impossible at the time of operation to say definitely whether the condition was carcinoma of the pancreas or pan creatitis pain or colics occurred in only 28 56 per cent and in the cases of pancreatitis these symptoms were present in 54 54 per cent

Pain and colies seem to have a definite relation ship to the prognosis. It was found that in the cases of malignancy with these symptoms the life expectancy was longer and in the cases of beings conditions the end results of surgery were better

than in others

Of the patients with beings stricture of the hile ductis requiring bilary intestinal anastomosis all hill to had had previous operations on the bile tract. The average period of relief was four and seven tenths months. Some of the strictures were probably due to trauma at the time of the first operation but doubtless many were caused by the continuation of an obliterative cholangeits due to inadequate drainage of bile.

In cases in which there was a reasonable chance that the patient would survive the operation the end results of bilary intestinal anastomous were satisfactory. In malignant conditions this operation was only a pallistive measure. In the benign conditions the anastomous of the bilary and intestinal tracts was satisfactory when there was sufficient.

tissue available for a fechnically correct operation.

In the 137 cases studied there were 9 instances of partial or complete contraction of the stoma of the anastomosis requiring a reconstruction operation in 7 of the 9 a hepaticoduodenostomy or hepatico.

gastrostomy was done

Retterer E Structural and Evolutive Variations in the Pancreas During Fasting After Trans plantation and After Resection of the Excretory Ducts (Variations Evolutive et structurales du pancreas pendant le pedne la greffic ous speès la résection des canaux excefteurs) Ans dans path 1938 v 07

In spite of innumerable investigations the element that presides over the metabolism of sugar temains obscure

It is generally believed that the glandular only do sand the pancress are concerned only with the external secretion while the objects of Langerham like the interstatial gland of the windersal secretion. When the pancreste durks are inderestly secretion. When the pancreste durks are lagated or the gland is transplanted the puthfulum of the acm is said to degenerate while that of the silets hypertrophies.

The course of events being entirely different in the testicle the author has studied the evolution of the pancreas during fasting following resection of the ducts and after transplantation for comparison

Under normal conditions the entitlelium of the panceas is not perminent. The cells divide giving race to the so called centro acrouss cells which after collishing their secretory function di appear. The lumen of the acro is maintained by liquefaction of the protoplasm of the cells and in the same manner the intracellular secretory canalicula are formed.

After fasting resection of the ducts or trans plantation the actni become transformed into solid cords and eventually the cells are changed into fibroblasts

Since the discovery of the salets by Langerhams the nature of these salets has been variously in terpreted. Physiologists have regarded them as the source of the internal secretion governing the metabolism of sugar. It is generally, agreed that their origin and the origin of the actin is the same but that a specialization occurs. It seems also that the salets may revert to acm.

In the fasting animal many of the acini lose their lumen and take on the reticulated appearance of silets. This change is associated with a certain degree of pycnosis. Moreover crythrocytes may be

found among the cells
Following resection of the pancreatic ducts the
modifications of the tissue take place from the tail
toward the bead and from the surface toward the
interior

For a long time (seven months) the acini in the center of the gland remain normal except for an in crease in size

The periphery of the gland consists of fibrous tissue in which are wide open canals limited by small fisht cells arranged concentincally. In places the lumen is absent and there is only a cord of cells. The transition of these cells to the cells of the surrounding connective tissue is continuous.

This finding has been interpreted by most in vestigators as the result of the degeneration of the epithelial cells with proliferation of the surrounding stroma. However mitotic figures are never seen and the author believes that the epithelial cells evolve directly into fibroblasts.

Whether these remnants of epithelial cells furnish the internal secretion which prevents glycosuria re mains to be determined by allowing enough time for complete degeneration of the entire gland

Following resection of the ducts the center of the gland shows large masses of retruitated tissue resembling connective tissue in appearance but found on careful study to be modified epithelium. This tissue is adentical in structure with the jastes. In reality the masses represent actin which have been modified by the loss of their secretory function.

In a graft this process occurs much more rapidly and in a few hours there is a dissolution of cytoplasm with a degree of pycnosis and the tissue takes on a reticulated appearance

The a decement

The e degenerative changes produce a tissue dentical with that of the alets However the relis-continue to produce an internal secretion until they become frankly, fibroblasts and connective tissue cells. The explains why large areas of reticulated itsue (supported islets) are found in the pancreas of diabetes and why some pathologists refuse to see in the 1 lets organs of internal secretion.

The evolution of the epithelium into fibrous tissue with eventual loss of both external and internal secretion has not as yet been clearly proved in the pancrers but has been demonstrated in the testicle
With degeneration of the epithelium and its com
plete transformation into fibrous tissue the internal
secretion ceases

LEFRY F Dr. CROST M.D.

MISCELLANEOUS

Graham F A Some Functional Tests and Their Significance New Instant J Med 1018 excus 1

Graham emphasizes the Importance of studies of function in the early recognision of mild disturb ances Sevice disturbances sufficient to be recognizable by national changes are often very late effects and their pre-ence frequently indicates neglect Improvements in disposis must nevertably come from methods which will enable us to recognize the companion of the

Cholect stography is a functional test of the gall bladder. It is known that the gall bladder concentrates its contained ble by the absorption of water and during digestion pours the concentrated bile librough life eying and common ducts into the duodenum. In addition, it is probably concerned in some manner with cholesterol metabolism. The two functions of the gall bladder which are known with

certainty - its concentrating action and its emptying -can be studied by cholecystography

The densest phthalein die shadous are obtained in normal gill blad lers since concentration is arcomplished by the absorption of water. Theoretically fadure of assurbantion may and ate impairment of the excretory power of the liver block age of the cystic duct or impairment of the ability of the gall blad ler to concentrate its contents but experience indicates that if the intravenous tech nique has been carefully carried out failure of visualization is due in nearly all instances (about 90 per cent) to impairment of the function of conien tration by the gill bladder A gill blad ler which fails to cast a shadow may be the cause of discomfort and dispeptic symptoms even if no marked pathological changes are apparent on macroscopic examination Howe er in nearly every instance of non vi ualiza tion excluding cases of imprired liver secretion such as those of cirrhosis hepatitis and hepatic ordema definite pathological findings will be evident. In practi ally all of fifty two cases collected by the author in which a gall bladder not visualized or visualized only funtly was removed in the absence of macroscopic explence of di ease the symptoms were rehesed after one year or more Cholecys tography is more valuable in diagnosi because it is a functional test than it would be if it merely re vealed anatomical changes

An important test of the exercitory function of the test is the phenoleteral holophiladien test. Normalinabout 12 per cent of the die is present in the blood serum half an hour after its injection and about per cent is found in the blood serum at the end one hour. In cholecystists is average retention a about twice normal in the one half hour period. This favors the view that cholecystists is acrompounded by constant hepitatus. Persons with obstice time jaundate from malignant disease show residess retention than those with jaunda edge to store in the common duct or with the condition called

catarrhal icterus

The retention of dye in the blood serum is an
Index to the operative risk. The greater the relenion

The greater the risk

Phenoltetra iodophthalein may be used for simultaneous cholecystography and determination

of the exerctory function of the liver. The function of the patterns is determined from the amiliase content of the blood since in you blood harms from the object of the lemma is much with of this ferment in the blood plasma is much with definite amount of the lemma is much with definite amount of the contained amiliase. The vice visual certained by the time taken for the solution pass through a vicesimeter. Craham places grat trainages on that test and layous it also because it is

simple and can be ring quickly
A nea test meal is bried in the normal regurtation of alk'thine papereine (duodensi) juste mis
the atomich. In this functional lest 400 c rin di
o 5 per cent solution of hydrochloric acid (the too
centration at which the acid is normally served
centration at which the acid is normally served
easier. For ecul ribliaging the stormeth and primally nor
central ribliaging the stormeth and primally nor
possing to find a richtickly high gastic acidity if the

lesson interreces with the duolenal reflux. The use of the cystometer which measures and records changes in solume and pressure within the unnary bladder is another important advince in studies of function. By means of this instrument detisted by Rose it is possible to differentiate with accuracy between disturbances of the badder of new rogens and other origins.

Geraham remunds us also that \(\text{Ta}_3 \) examination of the gastro-intestinal tract with the barium med is largely a functional test. Certain disturbances is largely a functional test. Certain disturbances in the motor functions filting and emptying which we now know how to eviluate when they are restall by the \(\text{Ta}_3 \) have for the most part been responsible for the revolutionary diagnostic effect of the barium med.

GYNECOLOGY

UTERUS

The Olshausen Operation for Barrows D N Retroversion of the Uterus Am J Obst & Gunec 1028 XVI 61

Barrows reviews a series of 571 cases of retro version of the uterus corrected by the Olshausen operation. He compares the results of this operation after a period of seven years with the corresponding results of the Webster Baldy operation in 209 cases and the Montgomery Simpson operation in 211 cases The incidence of cure was as follows Ols hausen operation 92 per cent Webster Baldy operation 83 per cent and Montgomery Simpson operation of per cent. As regards pregnancy there

is little choice between the three methods Strong points in favor of the Olshausen procedure are that the silk ligature rarely causes trouble intestinal obstruction following the operation is rare

and the operation is easy and rapid and causes little trauma to adjacent anatomical structures E L CORNELL M D

Rubin 1 C. The Diagnostic Use of Intra Uterine lodized Oll Injection Combined with the X Rava as Compared with Peruterine CO. In suffiction A Study Based on Sixty Six Cases of Tubal Obstruction Radiology 1928 x1 115

The patency or non patency of the fallopian tubes can he demonstrated with certainty by peruterine insufflation of carbon dioxide. As a rule the in troduction of iodized oil into the uterus to determine the site of an obstruction is not necessary as the kymographic record and the fluoroscopic findings at the time of the insufflation are usually sufficient

Of sixty six cases in which the author employed lipiodol injections as a check upon insuffiction the results were in agreement in sixty cases. The six cases in which there was a disagreement were those of patients with high grade strictures. In bigh grade strictures the method in which the greater degree of pressure is ventured is most apt to be followed by penetration of the stricture

Rubin decidedly prefers the insuffiction of carbon dioxide to the injection of lipiodol because it is just as effective in demonstrating patency it is simpler and less dangerous it may be repeated it does not require the aid of a roentgenologist and the carbon dioxi le is rapidly absorbed and leaves no trace in the pentoneal cavity. In some cases however the cathon dioxide may be absorbed so rapidly as to escape detection or may he confined in the pelvis by adhesions so that no subdiaphragmatic gas bubble

Insufflation is superior to lipiodol in demonstrat ing tubal pasm and impairment of function both of

which are recorded on the kymographic tracing. In doubtful cases and those in which operative relief of tubal obstruction is desired lipiodol should he used Lipsodol is valuable also in demonstrating submucous myomata of the uterus The contra indications are the same for both methods

CHARLES H HEACOCK M D

Dickinson R L Rebellious Cervicitis from Cysts High in the Canal Am J Obst & Ginec 1928 TYI TI

For the elimination of latent gonorrhoeal foci in women Dickinson recommends repeated cauter ization of cysts high up into the cervical canal and even beyond the internal os This treatment may be begun by evacuating the cysts low in the canal by gouging out and then working upward In the search for the cysts especially when they exude a glarry mucus cervical endoscopy is of great aid

The procedure is recommended especially for women in the child hearing age. In none of the author's cases has it been followed by sufficient cicatricial tissue to obstruct labor

E L CORNELL M D

flealy W P and Cutler M The Relation be tween Structure and Prognosis in Certical Car cinoma under Radiation Treatment Obst & Gynce 1928 XV1 15

Healy and Cutler review the end results obtained in 200 cases of carcinoma of the cervit treated by radiation alone They divide cases of this condition clinically into the following three groups

Group I Early cases in which the disease is localized and confined to the cervix

Group 2 Borderline cases in which the disease is more advanced with involvement of the paracervi cal tissues and the vaginal fornices and slight fixation of the cervix but the uterus is still freely movable

Group 3 Advanced cases in which the disease extends beyond the uterus into the parametrium and there is more definite fixation of the uterus

In the cases reviewed radium in massive doses was applied at the site of the primary lesion and supplementary \ ray irradiation was given The circum ference of the pelvis was divided into four quadrants Ooe treatment was given each quadrant the tube being so placed as to be centered on the cervical lesion

The basis of histological classification adopted was the degree of anaplasia of the tumor The significant histological signs of anaplasia are cellularity varia tion in the size and shape of the nuclei nuclear hyper chromatism an infiltrative tendency an increased number and a typical quality of the mitoses loss of polarity and absence of adult differentiated characters

The conclusions drawn were as follows

The degree of malignancy of a given case of car cinoma of the cervix may be determined frirly as curately from a study of the histological structure Such information may be of value in both the prog no is and the treatment. On the basis of the degree of anaplasia epi lermoid carcinomata of the ceruix may be classified into three groups which correspond closely to the three degrees of malignancy

The adult type of carcinoma of the certic is markedly resistant to radiation, the anaplastic type is highly radiosensitive and the plexiform type oc-

cupies an intermediate position

44

In cases of carcinoma treated by radiation the most important factors in the prognosis are probably the stage at which the treatment is begun and the radio sensitivity of the tumor. From 20 to 25 per cent of carcinomata of the cervix are histologically very cellular malignant and aparlastic and therefore highly susceptible to radiation. Under radiation the prognosis improves with the degree of anaplasia. of the tumor this fact accounting for a high percent age of cures in a group of cases in which the results of surgery have been unfavorable. In cases of advanced carcinoma radiation may result in a cure in a large proportion of cases if the tumors are of the railiosensitive type but if the tumors are of the radioresistant type only palliation can be expected L L CORNELL, M D

Pack G T The Management of Uterine Malig nancies at the Radium Institute of the Univer nity of Paris South W J 1918 xu 505

I ack describes the management of uterine malig nancy at the Radium Institute of the University of

I are and supplements this report with personal ob servations and comments

In discussing the histological and bacteriological study preliminary to the uterovaginal application of radium he advises the ablation or curettage of can cerous vegetations of the uterine cervix because it facilitates treatment suppresses suppuration from the injected cervit frees the implantation of the cervical tumor from the orifice of the uterine canal permits closer approximation of the radium to the outlying enner tissue favors cicatrization and less ons the danger of toxamia from absorption

With regard to the technique of radium irradiation he states that there are fundamental factors influ euring the dosage such as radiosensibility and its variations factors inherent in the histological structure of the lesion and the composition of connective tasue the influence of infection acquired radiore sistance artificial radiosensibilization the factor of time and the quantities of rays absorbed

The contra indications to irradiation within the uterus and vagina are a state of radioresistance fol lowing a series of previous treatments, the presence of a local or general infectious state that cannot be suppressed cacheria caused by animia following re perted hemorrhages uremia from compression of the urelers concomitant grave chronic or atute al

fections such as diabetes. Bright's disease curbo a of the liver cardiopathy pulmonary tuberculous and generalization of the cancer in the peritoneum of other viscera

The advantages of external radium theraps over roentgen theraps are greater specificity or electrity of action the constancy of the emission rate of ra

dium and simplicits of technique I aternal radium therapy is of value in cases of very advanced cancer in which irradiation by the uterovaginal route would be impractical futile or dangerous in cales of inoperable cancer or those at the limit of operability in which irradiation by the uterovaginal route would be insufficient and in cases of recurrence after hysterectoms. The radium block as applied over from six to eight areas depend ing upon the nature of the case and the size of the

patient The interstitud use of radium in this region is dan gerous When radium puncture and intra utenne and vaginal stradiation are employed simultaneously secondary rays may be produced by the impinge ment of gamma rays on the platinum needles or seeds Such beta therapy mereases the danger of radium necrosis

The indications for roentgen therapy alone are the same as those for external radium therapy. It is considered best to have the surgery follow the ra dium treatment. If the cancer is operable and the patient is in good condition hysterectomy is not rendered difficult by a previous radium therapy f revious internal uterovaginal radiation asepticizes the vagina and heals the malignant ulcer The author is of the opinion that the employment of the two methods successively increases the chances of effecting a cure without greatly increasing the risk The interval of time between the radium treatment

and the operation should be about the months The mefficiency of the \ rays in the treatment of recurrences following previous radium therapy was reported by Regaud in 1923 with regard to epi thehomata of the skin and mucous membranes in general The \ rays are especially medicient after radium therapy by the uterovaginal method Roentgen therapy should be administered first and followed by radium therap; immediately or after a very short penod of rest

The author gives the usual classification of can cers of the cervix uteri according to the prognosis and

then summarizes the therapeutic indications as fol-The canters most suitable for surgical treatment are (s) adenocarcinoma of the cervis (2) cancers

associated with adnexal infection (3) cancers per sisting after radium therapy and (4) cancers asso ciated with certain vaginal malformations. In all other operable cases in good condition uterovaginal radium therapy is indicated. This is preferable to hysterectomy Hysterectomy may he successful in some cases but only a few of the total number of pa tients coming to consultation can be operated upon safely

Hysterectomy after internal radium therapy gives good results only in cases which were apparently operable before the radium treatment Hysterec tomy followed by radium therapy is indicated only in those rare cases in which there is malformation or occlusion of the vagina and uterus

Roentgen therapy alone or external radium ther any at a distance is the method of choice in inoper able cases in which the condition of the uterus and vagina does not permit the correct use of radium It is the necessary method when recurrence follows

hysterectomy

The use of the \ rays or radium at a distance in conjunction with the uterovaginal application of radium is the correct method when the parametrium

Carcinoma of the body of the uterus af operable should be treated by complete hysterectomy When it is inoperable radium irradiation is the method of choice

¥

External radiation is given preferably with the large radium box or pack. If \ ray treatment is given it should always precede radium treatment ROLAND S CRON M D

Cox D M and Benischek W L Mized Tumors of the Cervix Uterl Sarcoma Botryoldes with a Report of Two Cases Im J Obst & Gy 100 1928 XV1 28

The two cases reported in this article were tho e of a child two years of age and a woman twenty nine sears of age

The authors state that mixed tumors of the cervix are comparatively rare. They are of mesodermal origin. The connective tissue element is usually the most prominent. The neoplasms resemble and are They may frequently described as sarcomata occur at any age but unlike vaginal mixed tumors which are most common in infancy they are lound most frequently in adults. In infants they usually appear as polypoid masses In adults their appear ance is less constant but they may be similar to the

grape like tumors which occur in children They may arme from the vaginal surface of the cersis or protrude from the cervical canal When they re emble sarcomata the metasta e frequently have

typical botry old characteristics

Mixed tumors of the uterus are found most often in the cervix. The chrical picture varies consider ably In the inlant the tumor is usually first dis covered when it appears at the vulva although its appearance may be preceded by a bloods di charge In the adult the most common signs and symptoms are a foul blood stained di charge dispareunia or a mass in the vagina. In some cases there may be backache a feeling of weight in the vagina or a bearing down sensation. When the grape like bodies are expelled they are sometimes mistaken for byda tidiform mole. In the cases of children the growth is usually thought to be a simple polyp and excision is advised. After exci ion it quickly recurs and its malignant nature is then suspected. The extreme

malignancy of these tumors is shown by the fact that there are no permanent cures on record

According to Kolisko and Hauser these tumors arise from fetal rests. Wilms believes that they are of developmental origin and due to a displaced embryonal germ cell pushed down ahead of the wolffian duct Franks states that this indifferent germ cell must be mesodermal in order to supply the myotome derivatives

The authors cases were treated by operation fol lowed by radium irradiation. In both metastases and recurrences developed and death resulted

F L CORNELL M D

EXTERNAL GENITALIA

Garlock J 11 The Cure of an Intractable Vesico vaginal Fistula by the Use of a Pedicled Muscle Flap a New Concept Surg Grace & Obst 1928

Garlock reports a case in which a large urethro vesicovaginal fistula was closed by means of a pedun

culated muscle flap taken from the inner side of a thigh in the form of the gracilis muscle and intra vesical suction was continued for twenty four days without evidence of vesical infection

CARL H DAVIS M D

MISCELLANEOUS

Petit Dutaillis P Contributions on Roentgenol ogy of the Pelvis (Contributions diverses à la radio logie pelvienne) Bull Soc d'obst et de gynée de Par 1928 XVII 400

The author discusses a number of cases diagnosed by the intra uterine injection of lipiodol including one case of elonism and hypertonia of the uterine musculature two cases of hypotonia resulting from general weakness one with prolapse and apparent elongation of the supravaginal part of the cervix and the other with retroflexion of the uterus one case in which the pelvic segments of the intestine were shown by the injection and one case of pelvic appendicates in which the injection of lipiodol into the uterus and tubes was combined with carcal roentgenoscopy

Following his report of these cases Petit Dutaillis reviews the great advances that have been made in the honodol method since it was first used to deter mine the permeability of the fallopian tubes Lipsodol 1 now employed not only to investigate the condition of the genital tract but also to outline the organs surrounding the genitals Beclere has used it to demonstrate spina bifida. With roentgen ography of the ureters after the insertion of reten tion catheters and roentgenography of the hladder after the injection of an opaque fluid it may be employed to determine the exact site and relations of intraligamentous tumors

It is of value also in treatment as it has the therapeutie properties of tincture of iodine and is not irritating. The author reports a case in which

it was used in the treatment of bdateral chronic salpingits following tuberculous pentionits. He states that he intends to try it also in chronic endocervicitis Audity & Money & Money with

Meigs J \ Radium and Its Use in Gynecology
New England J Med 19 8 event 258

The author's discussion on the use of radium in

gynecology includes a brief review of the hatery of rudum and radium therapy in general. The physics of radium is briefly explained with regard to the formation of radion and with regard to the alpha bets and gamma rays their properties biological uses and availability for treatment. I special reference is made to screens or filters methods of describing dosage cross firing the distance between the radium and the skin or the lemon to be treated and the importance of secondary or swittered rays

lieta rays because they are caustic and capable of producing complete necrosis in relatively small doses (to me has steel screened may be used to treat a small enithelioma r cm square) are of value for the destruction of carcinoma of the cerus. The destruction is as certain as that produced with the knife Normal as well as pathological cells are de stroyed by the beta rays 'it best however beta irradition is a superficial therapeutic measure as 99 9 per cent of the beta rus are absorbed by 13 mm of tissue When metals are used to absorb the beta rays the gamma rays eaust a more quiet destruction of the cancer cells with the death of normal cells only adjacent to the applicator Ap parently gamma rays have a more selective action upon tumor cells

As the intensity of radiation from radium de creases inversely as the square of the distance the radiologists at St. Bartholomy a Hospital in I ondon divide the radium into numerous applicators and distribute them evenly throughout the involved tissue. In France gamma radiation is believed to destroy the dividing cell whereas in England it is bels yed to prevent division Therefore in England it is believed that a certain minimum amount of radiation prevents cells from beginning mitosis and that very large amounts will not improve the re suits Donaldson and Cauta are of the opmion that at the end of twenty four hours mitosis ceases only to recur abnormilly in four days Therefore in cases of cancer of th cervix Donaldson uses 50 mgm in many applicators about the periphery of the lesion for one hundred and forty lour bours His results are as yet to be evaluated. Keynes has convinced the staff of St Bartholomy's Hospital of the s perso sty of this method also in the treatment of cancer of the breast In the opinion of several authorities the use of a small amount of radium over a long period of time may be more valuable than the use of a large amount over a short period

Deep tumors which are inaccessible to the mi plantation of radon are usually treated with deep V rays but in some cluics packs of 5 gm of radium have been employed with considerable success The morphological changes due to radum us characterized by early swelling of the cells hyper chromatism of nuclei local hyperarms leucoptors and the occasional rupture of crupliants. Lato the destroyed fumor tissue is removed and the blod supply to the tumor is decreased by thickenia eventual obliteration of the arteroles. Eventually connective tissue with a scan th blod supply is formed. Any remaining cancer cells are thus in accreaated and often rendered innocuous for vent

As it is evident that undifferentiated cells in more su ceptible to radiation than adult cells it may be advisable to give midder does to high mitgrant cells and higher does to tumors of low makes and the control of the control of the makes of the control of the control of the outside of the control of the control of the total of the control of the control of the impedes the formation of connective tissue Recurrences do not respond well to radiation heater

is imperative that the initial treatment be adequate l'umors of the vulva or elitoris are treated by excision followed by \ ray treatment when they are operable and interstitially with radium when sur gery is contra indicated In operable cancer of the cervit radium treatment is the method of choice as its results are as satisfactory as those of surger) and it is associated with no mortality. In inoperable cases surgery cannot compare with radium In early cases radium in thin steel containers the beta rays being employed is place I in the cervical canal and glass implants are used interstitially. In advanced cases salver or brass screened applicators are used and gold implants may or may not be inserted I ven in extensive lesions improvement is noted in three months In widely fixed disease the \ ray may alleviate pun

In operable cancer of the fundus histeretony is the method of choice. When operation is continuously and the method of choice is the operation is continuously as the continuously as the continuously the continuously as the continuously the continuously as the continuously as the continuously the continuously as th

In beauga uterine bleeding the cause of which can not be located radium is at its best a cure in oper cent of the cases being not uncommon. In the case of young women, the does should not exceed 300 mbrs. In those of women never the menopause a door burst of the case of young women, and the case of young nomen small does may be green in the cases of young nomen small does may be repeated.

Radium is of great value for leveling fibroids but Radium is of great value for leveling fibroids but

as definitely contra indicated when the woman is under forty years of age and when the timor is pedunculated or very large or grows rapidly. When conditions are favorable it usually causes a reduction in the size of the tumor within six months. Its results are best in the cases of women about forty

years of age who have a symmetrically enlarged uterus not larger than a three months pregnancy In such cases radium is superior to surgery. It may give good results also in cases in which surgery would ordinarily be employed and is contra indicated on account of some general condition. The dose is from 1 500 to 2 500 me hrs of gamma rays placed

well up in the uterine cavity
Radium may be used also at the site of a removed
cervical or uterine polyp. If it is advisable to preserve menstrual function the dosage should be small
In endocervicitis—300 mc hrs with heavy screen

ing may give good results

The author emphasizes that irradiation of the bleeding uterus should be preceded by diagnostic

curettage A JAMES LARRIN M D

Morse A H and Perry I H A Diffuse Petvic
Endometrioma Constricting the Ureters Am

J Obst & Gymes 2028 xv2 38

The patient whose case is reported was under observation for a period of five years Death followed an operation for abscess of the kidney or pyelitis. At autopsy the uterio was found distorted by the tumor and the associated inflammatory changes throughout the pelivic viscera but other wisse was quite normal. The lumina of the rectum

and ureters were markedly constricted this account ing for the patient's complaint of constitution for two years and the severe pain associated with micturation

Histologically the tumor consisted of connective tessue with scattered islands of dilated glands lands with low columnar epithelium. In some of the gland lumina particles of brown pigment and shad owns of red blood corpuscies were clearly seen. The neoplasm was undoubtedly a diffuse endometrioma. The gland structures were quite similar to those of the uterus and the epithelial lumps and stroma were quite similar to those for the uterus and the epithelial lumps and stroma were quite similar to those found in the endometrium.

quite similar to those routhin in the thiosheritium. The presence of pigiment and red blood cells in the gland lumina indicates that these glandular ectopic structures went through the phases of the menstrual cycle. Climically it was noted that the acute attack the content of the content of

L L CORNELL VI D

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Titus P and Dodds P The Etiological Significance of Lowered Blood Sugar Values in the Vomiting of Pregnancy 1 1 J Obit & Greet

1928 XVI 00

fitts and Dodds have studied a series of forty, cases of hispermences grivalization of moderately-severe and very severe grade with special reference to the etiological significance of lowered blood sugar undermations at the facebase of the condition. Their work was earthily faceked by blood sugar interminations at the leginating and floring the course of the irretiment while the pytients were in the hospital. An attention was multe also to follow up the patients after as months and one veer

I rom the auccessful results of their carbohydrate therapy the authors conclude that the chief factor in the tovermas of pregnancy is a deficiency in carbohydrates. The sudden drop in the blood sugar in claimyst and eclampite sequent suggests that

carbohydrate deficiency may be responsible also for these conditions

In cases of hyperement the blood sugar readings in licate a hypoglycuma and are lowest in the cases of women who are most profoundly affected by the town mass. In full ministing cases of hyperements with rective yellow atrophy of the liser convulsions occur early in pregnance with a are comparable to typical calmptic actures later in pregnance.

The use of insulin without glucose in hy peremessis is dangerous. Careful laboratory control of the blood chemistry in thisse cases with special reference to the blood sugar is essential. The authors cate a case of pregnancy complicated by diabetic command a blood sugar reading of 30 mgm per 100 cc cm of blood in which they believe death would have resulted it sugar had been administered.

I I CORVELL M D

Ivens F Latent Sepsis in Pregnancy Tourmin

Since the torse manifestations of pregnance are closely allied it seems logical to expect a common cause and its bacterial cause all persons in the body probable. It organisms to be present in the body with the present in the body and the expected in the time. In thirteen cases with all unmurus and ordern colorom organisms were found in the urine usually with pay and sometimes with blood. In the urine of two somes with personal to the present of the present of the present of the present of the united present of the present of the united presents of the present of the united presents of the present o

hypergments and jaundice the urine contained shi min acctone bite leucocytes and a few coldon organisms but blood cultures were negative. Or ganisms were found in the urine also in four cit. of accidental harmorthage. T Floor Bits, M.D.

Ferguson L K and Priestley J T The Relation of Gaif Bladder Disease to Pregnancy As / Obst & Gance 1028 xv1 82

In an investigation of the relationship between gall bladder disease and pregnancy the nation found that of a series of 122 nomen with gall bladder disease 95 (848 per cent) had borne children are 20 of the latter stated that their first stack of curred during or shortly after their first pregnancy.

In cases of chelithius the times were composed largely of cholesterol only. This is an internate observation maximuch as preçanare, is frequently associated with a definite hipercholesterolizane which undoubtedly predisposes to the formation of gall stones. Because of this association of pregastly hipercholesterolizane and gall stones the problematic treatment should be directed toward keptag the blood cholesterol at the lonest possible level damag pregnancy. The cholesterol of the blood dependent largely upon the dust. Therefore the of cholesterol containing food should be fairly of cholesterol containing food should be affected to the containing food

LABOR AND ITS COMPLICATIONS

Miller D. Unsuccessful Forceps Cases Causation
Management and End Results Bnt M. J.
1928 it 183

Hendry J How Far Can Unsuccessful Forcept Cases Be Presented by Efficient Antenaval

Care? Bett W J 1928 II 185 Shaw W F Unsuccessful Forceps Cases The Need for a Higher Standard B II M J 19

u 188
Miller discusses the reasons for the unsuccessful

application of lorceps in 558 cases—281 fcm Shaws service in Manchester 125 fcom Herdry's service in Glasgow and 152 fcom the Edinburgh I oval Maternity Hospital In 211 cases the cause of the distoria has dispre-

portion. In the majority the disproportion was due to pefvic contraction and in a small number to shnormal size of the child. In 6 cases the cause we'd contraction ring of the uterus. The pelve were chiefly flat rachitic and generally contracted but in a cases there was a detormity of the pelvic outer.

In more than one-half of the 211 cases the head was freely movable at the brim when the patient was admitted to the hospital In many the dispropor tion was so extreme that extraction was difficult even after the head was crushed. In others the head was engiging satisfactority and would have descended had assistance been withheld until the head had moulded more and the butth passage had

become more fully dilated

In 161 cases the cause of the distocia was a poste
for position of the occiput. The fact that in the
majority this had not been diagnosed shows the
need of careful examination before application of
forceps in order to determine the exact position of

the head

In 151 cases, the pelus the size of the baby the presentation and the position were normal but Miller believes that some of these were cases of occupit posterior in which antenor rotation had occurred after the application of forceps while the patient was being taken to the hospital in a large number delivery had been attempted before there was sufficient dilatation of the soft passages or moulding of the head Many of the patients had had a prolonged first stage and no control had caused the attending physician to act against bis better undernet.

A fourth group included 12 cases of face presenta tion (5 of them mentium posterior) 8 of brow presentation 8 of hidrocephalus 2 of breech presentation 2 of shoulder presentation 2 of ovarian tumor obstructing fabor and 2 case of locked twins

Shock was found not an infrequent complication and in some of the cases influenced the treat

ment
Of the women in the first group 18 were delivered
spontaneously or by low forceps showing that fur
ther moulding of the head had overcome the disproportion 15 were delivered by high forceps 8 by
extensor 85 by transitions and 12 by existens see
tion I tubictom) was not done in any case. There
were so material deaths and 15 fetal deaths. The
causes of the material deaths are puerperal sepsimountained to the service of the control of the
mountained of the service of the control
with rupture of the utersum 2 cases and pneumonat
in 1 case.

Of the women with an occiput posterior position of the fetal head a large number were delivered by forceps after manual rotation to anterior 15 were stone 37 by craminolomy and 3 by crease in by ver soon 37 by craminolomy and 3 by creasers section 15 by the stone of the material dethis and too fetal force were 160 material dethis and too fetal in it cases supture of the uteriors in 3 cases and preumonia in cases and preumonia in cases and preumonia in cases and preumonia in the stone of the uteriors in 3 cases and

In the majorits of the cases in the third group morphise was given or to slught sleep was induced and the labor allowed to continue until delivers was differed spontaneously or blow forceps. Fortiseven of the women were delivered spontaneously as the stransform and 2 bit crassrean ection. There were o maternal and 2 bit crassrean ection. There were o maternal and 2 fetal leaths. The death of the mother was

due to sepsis in 5 cases rupture of the uterus in 2 cases postpartum shock in 1 case and pneumonia in

T COSE

Miller states that many of these disasters could have been prevented by recognition of the abnormality policy contraction or over size of the child before delivery. They show the danger of applying the forceps on the floating head and without accurate knowledge of the position of the head

Il rooms in discussion how far the unsuccessful application of forceps can be prevented by efficient application of forceps can be prevented by efficient antenatal care emphasizes that careful external and intenal pelvic measurements should be made and skeletal deformities proted. Internal exturnia tion is essential Besides measuring the diagonal conjugate the obstetrician should playate the pelvic might obstruct labors should be detected. A pendiu lous abdomen in the case of a primigravide the head always arouse suspicion. In primigravide the head should descend into the pelvis during the last month pelvis but in some cases the cause may be a faults presentation needsmorn or fluents previous.

In doubtful cases at term the best pelvimeter of aff-the fetal head—is available. Hendry recommends the modification of Muller's method so long

advocated by Munro Kerr

Hendry calls attention to the fact that there is an essential difference in the prognosis of labor in a generally contracted and in a flat rachitic pelvis fin the diat rachitic pelvis there is dually enough space in the lateral buys on each side of the promonitory for the head to engage transversely and make is way through the brimp discent of the occiput through one of the bays. In a generally contracted pelvis bowever the total area of the burn is small and the head can pass through only in extreme fexuon. The extreme flexion makes traction with

flexion. The extreme flexion makes traction with forceps difficult as only an insecure hold is obtained. The history of difficult or instrumental deliveries in previous pregnancies should put the obstetricin

on guard for a repetition

Absolute measurement by the \tan is not of great value except in extreme cases. The position of the head at the brim before the onset of labor does not give any indication as to how the head will mould or alter its position and relationship under the influence of utering contractions.

In Hendry's borderline cases of contracted pelvis the patient is allowed a good long labor and a lower uterine segment carsarean section is done if progress is not satisfactor. To decrease the risk of infection examinations are made by rectum instead of by

vagna

Occupit posterior positions should be diagnosed without much diffeult. Some of them can be changed to anterior positions by the use of pads and binders. From 66 to 80 per cent rotate spontane ously. The important point is to recognize the association of this malposition with a protracted labor Dilatation of the cervix is often slow. The

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Titus P and Dodds P The Etiological Significance of Lowert J Blood Sugar Values in the Vomiting of Freguency Im J O at a Grance 1973 xvi 90

Titus and Double have studied a series of forty cases of hypertheness great bearing on letative severe and very severe gride with sperial reference to the titological significance of the body significance of the chief of the chief of the condition. Their words with the condition. Their words with the condition of the course of the treatment while the patients were in the hospital. In attempt was mich, also to follow up the patients after as a months and one wear.

I rom the success ful results of their carbohydrate therapy the authors conclude that the chief factor in the toxemass of pregnancy is a deficiency in carbohydrate. The sudden drop in the blood sugar in celampsis and celamptic secures suggests that carbohydrate deficiency mys he responsible also for

these conditions

In cases of hyperements the blood sugar readings indicate a hypoglycuma and are bruest in the case of women who are most profoundly affected by the toxemist. In full minimating cases of hyperements with neutre yellow a trophy of the here convulsions occur early in pregnancy which are comprisable to typical eclamptic socquest later in pregnancy.

The use of insulin without glucose in hyperemesis is dangerous. Largiul jaboratory control of the blood lehemistry in these case with special reference to the blood usage is essential. The nuthoristic a case of pregnancy complicated by diabetic command a blood sugar reading of 35 mgm per 100 ecm of blood in which they believe death would have resulted if sucar had been administered.

I I COUNTELL M D

Ivens F Latent Sepsis in Pregnancy Townsia

J Obst C Gynec Br 1 Emp. 1928 xxxv 307

Since the toxic manifestations of pregnancy are closely allied it seems logical to expect a common cause and a bacterial cause appears to be the mot probable. If organisms are crum-proper that they all the excreted in the time. In thirteen cases with abummont in ordern coloidom organisms were found in the urine of two woman with per ancious somiting of pregnancy mother beach were conditioned in the condition of the condition of

hyperemests and jaundice the urine contained aborum actions bile leurocytes and a lew roblom organisms but blood cultures were negative 00 gaussins were found in the urine also in four case of accidental harmorthage T Flory Brill MD

Ferguson L k and Priestley J T The Relation of Gall Bladder Disease to Pregnancy An J Obd & Gynce 1915 2vt 82

In an investigation of the relationship between gall bladder disease and pregnance the autonfound that of a series of 122 women with gall bladder disease of (848 per cent) had borne children and 20 of the latter stated that their first stack of curred during or shortly after their first pregnancy.

In cases of choleithauss: the stones were comp. of larged in cholesterol only. This is an interstal observation in assued as pregnancy is frequestly associated with a definite hypercholeiterax which undoubtedly predisposes to the formation of gail stones. Because of this association of pregnary hypercholeiterolarma and gall stones the prophilitation treatment should be directed toward regist the blood choleisterol at the lowest possible following pregnancy. The choleisterol of the bed disagned pregnancy. The choleisterol of the bed disagned to containing food as possible that the disagned of choleisterol containing food as possible for the sea of choleisterol containing food as yould reflect the season of t

LABOR AND ITS COMPLICATIONS

Management and End Results Brd H J

1908 i 18; Hendry J How Far Can Unsuccessful Forces Cases Be Prevented by Efficient Antenatal Care? Br J J 1928 ii 185 Shaw W F Unsuccessful Forceps Cases The

Need for a Higher Standard Brit V J 1928 n 188

MILLER di cusses the reasons for the unsucces ful application of forceps in 558 cases—281 from Shaws acruce in Manchester 125 from Headty's service in Glasgow and 152 from the Edinburgh Royal Maternity Hospital

In 221 cases the cause of the dystocia was disproportion. In the majority the disproportion was due to pelvic contraction and in a small number to almormal sage of the child. In 6 cases, the cause was contraction ring of the uterus. The pelves were chiefly flat rachitic and generally contracted but in 4 cases there was a deformity of the pelvic outlet.

In more than one half of the zrr cases the head was freely movable at the brini when the patient was admitted to the hospital. In many the dispropor tion was so extreme that extraction was difficult even after the head was crushed In others the head was engaging satisfactorily and would have descended had assistance been withheld until the head had moulded more and the birth passage had become more fully dilated

In 161 cases the cause of the dystocia was a poste por position of the occuput. The fact that in the majority this had not been diagnosed shows the need of careful examination before application of forceps in order to determine the exact position of

In 151 cases the pelvis the size of the baby the resentation and the position were normal but Viller believes that some of these were cases of occuput posterior in which anterior rotation had occurred after the application of forceps while the patient was being taken to the hospital In a large number delivery had been attempted before there was sufficient dilatation of the soft passages or moulding of the head. Many of the patients had had a prolonged first stage and no doubt the anxious excited relatives and their importunities had caused the attending physician to act against his better iudgment

A fourth group included 12 cases of face presenta tion (5 of them mentum posterior) 8 of brow pres entation 8 of hydrocephalus 2 of breech presenta tion 2 of shoulder presentation 2 of ovarian tumor obstructing labor and I case of locked twins

Shock was found not an infrequent complication and in some of the cases influenced the treat ment

Of the women in the first group 78 were delivered spontaneously or by low forceps showing that fur ther moulding of the head had overcome the disproportion 15 were delivered by high forcers 8 by version 98 by craniotomy and 12 by exsarean sec tion Publotomy was not done in any case. There were 29 maternal deaths and 154 fetal deaths The causes of the maternal deaths were puerperal sepsis in 21 cases postpartum shock in 3 cases postpartum hæmorrhage in 2 cases shock and collapse associated with rupture of the uterus in 2 cases and pneumonia

Of the women with an occiput posterior position of the fetal head a large number were delivered by forceps after manual rotation to anterior 15 were delivered spontaneously of by forceps 11 hy ver si in 37 by craniotomy and 3 by exsarean section There were 116 maternal deaths and 100 fetal deaths. The death of the mother was due to sepsis in it cases rupture of the uterus in 4 cases and

pneumonia in i case

In the majority of the cases in the third group morphine was given or twilight sleep was induced an I the labor allowed to continue until delivery was effected spontaneously or by low forceps. Forty seven of the women were delivered spontaneously 15 by forceps o by version 18 by cramotomy and

2 by cassaican section. These were 9 maternal and 78 fetal deaths. The death of the mother was

due to sepsis in 5 cases rupture of the uterus in 2 cases postpartum shock in a case and pneumonia in z case

Miller states that many of these disasters could have been prevented by recognition of the abnor mality pelvic contraction or over size of the child before delivery They show the danger of applying the forceps on the floating head and without ac curate knowledge of the position of the head

HENDRY in discussing how far the unsuccessful application of forceps can be prevented by efficient antenatal care emphasizes that careful external and internal pelvic measurements should be made and skeletal deformities noted. Internal examina tion is essential Besides measuring the diagonal consugate the obstetrician should palpate the pelvic brim all around Fibroids or ovarian cysts which might obstruct labor should be detected. A pendu lous abdomen in the case of a primigravida should always arouse suspicion. In primigravide the head should descend into the pelvis during the last month Its failure to descend is very often due to contracted pelvis but in some cases the cause may be a faulty presentation neoplasm or placenta prævia

In doubtful cases at term the best pelvimeter of all-the fetal head-is available Ifendry recom mends the modification of Muller's method so long

advocated by Munro Kerr

Ifendry calls attention to the fact that there is an essential difference in the prognosis of labor in a generally contracted and in a flat rachitic pelvis In the flat rachitic pelvis there is dsually enough space in the lateral bays on each side of the prom ontory for the head to engage transversely and make its way through the brim by descent of the occiput through one of the bays. In a generally contracted pelvis however the total area of the brim is small and the head can pass through only in extreme flexion The extreme flexion makes traction with

forceps difficult as only an insecure hold is obtained The history of difficult or instrumental deliveries in previous pregnancies should put the obstetrician

on guard for a repetition

Absolute measurement by the \ ray is not of great value except in extreme cases. The position of the head at the brim before the onset of labor does not give any indication as to how the head will mould or alter its position and relationship under the influence of uterine contractions

In Hendry s borderline cases of contracted pelvis the patient is allowed a good long labor and a lower uterine segment casarean section is done if progress is not satisfactory. To decrease the risk of injection examinations are made by rectum instead of by

Occiput posterior positions should be diagnosed without much difficulty Some of them can be changed to anterior positions by the use of pads and hinders From 60 to 80 per cent rotate spontane ously The important point is to recognize the association of this mulposition with a protracted labor Dilatation of the cervix is often slow. The

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Thus P and Dodds P The Filological Significance of Lowered Blood Sugar Values in the Voniting of Frequency In J Oh I & Grace 1928 XVI 90

Titus and Double have studied a series of forticases of hypermenses gravitation of moderately severe and very severe grade with special reference to the titol such augménance of lonered blood evervolues in this condition. Their work was curefully checked by blood sugar determations at the beginning as I during the course of the treatment while the pattents were in the hosy in! An attempt was made tils to follow up the justicuts after air months and one year.

I rom the successful results of their carboh-drate therapy, the authors conclude that the chief factor in the toxa mias of pregrames is a deficience in carboh-drates. The sudden frop in the I lood sugar in eclumpsis and eclamptic secures suggests that carboh-drate deficiency may be responsible all o for these conditions.

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The use of insulin without glucose in hyperemesis is dangerous. Careful laborators control of the blood chemistry in this eases with special reference to the blood sight is easential. The authors cite a case of pregnancy complicated by diabetic command a blood sugar retuding of 32 mgm per 100 cc cm of blood in which they believe death would have resulted if sugar had been administer?

I'L CORNELL VI D

Ivens F Latent Sepsis in Pregnancy Tosamia J Obit & Cyr & Bit Lip 918 xxxv 30

Since the lowic manifestations of pregnancy are closely affield it seems logical to expect a common cause and a bacterial cause appears to be the most probable. If lorganisms are cruciviting in the hody in the control of the contro

hyperemesis and jaundice the urine contained the min acctone bile leucocytes and a lew colorin organisms but blood cultures were negative. Or ganisms were found in the urine also in leut tac of accidental hymorrhage. Thors Bett, MD

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Obst & Lynes 1028 201 82 In an investigation of the relationship between gall bladder disease and pregnancy the author found that of a series of 112 women with gall bladen diserse os (84 8 per cent) had borne childres and 20 of the latter stated that their first attack or curred during or shortly after their first pregnarty In cases of cholelithiasis the stones were composed largely of cholesterol only This is an interest. observation masmuch as pregnancy is frequent associated with a ilefinite hypercholesterolami which undoubtedly predisposes to the formation of gall stones Because of this association of pregnant h) percholesterolæmia and gall stones the prophy lactic treatment should be directed toward keeping the blood cholesterol at the lowest possible is during pregnancy The cholesterol of the blood a dependent lurgely upon the diet Therefore the to of cholesterol containing loods should be retricted among such foods are fats egg volk fried foods sweetbreads liver kidney pork butter and there F L CONTU, M.D

LABOR AND ITS COMPLICATIONS

Miller D. Unsuccessful Forceps Cates Causation

Itendry J. How Far Can Unsuccessful Forces

Cases Be Prevented by Efficient Antenaci

Cated B at M. J. 1028 11 185

Cate? B it M J 1932 11 185

Than W F Unsuccessful Forceps Cases

Need for a Higher Standard Brit M J 1938

11 188

MILLER discusses the reasons for the unsuccessful application of forceps in 558 cases—381 from the way service in Manchester 123 from Heady service in Glasgow and 152 from the Edinburgh

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chiefly flat rachitic and generally contracted but it is acses there was a deformity of the pelvic of in more than one-half of the 211 cases the bad was freely movable at the brim when the patient was definited to the hospital In many the dispropor

MISCELLANEOUS

Nelson E E and Pattee G I. The Present Status of the Ergot Question with Particular Reference to the Preparations Used in Obstetrics and Gynecology Am J Obst & Gynec 1928 xvi 73

The authors have made a study of the composition of ergot its active principles and the preparations offered on the market. They classify the active substances into two groups the alkaloids crystalline ergotinine and amorphous ergotinine (the latter known also as ergotivine) and the amines principles.

cipally histamine and tyramine

Pharmacologically the crystalline ergotimme is a refutuely intert substance as shown by its action on the isolated guinea pig uterus. The amorphous ergotimien or regiotome has a more marked effect as shown by the characteristic bluing and gangrene it cuses in the cock a comb it is stimulation of the er cased uterus of the rat call and guinea pig and its control of the combonium of the control of the cased uterus of the rat call and guinea pig and its montacidar with. Ergotimine while physically and chemically different from ergotoxine has a similar pharmacolynamic action.

Of the amnes bustamne and tyramme are the only two of any importance. They occur in the fresh crude drug and are usually present in the galenical preparations. The relative activity of these preparations is diumetrically opposite. Tyramine produces a rise and bustamine a fall in the blood pressure. On the excised uterus, tyramine has less than one ope hundredth the activity of bysamine.

The authors conclusions regarding the activity and use of ergot and us principles are as follows. All of these substances will stimulate the isolated uterus but the value of tyramine ergotoxine and instamue in obstances or graneflers, it is considered.

uterus but the value of tyramine ergotoxine and histamine in obstetrics or gynecology is question able. The alkaloid ergotamine is probably the most important constituent of ergot. Its presence is highly desirable in all ergot preparations and should be insured. Of the ergot preparations on the market

only the USP fluid extracts contain important amounts of the active alkaloids and only the official fluid extract or preparations definitely shown by proper methods of assay to contain these alka loids should be used E L CONVEIL M D

Chappaz G Comparative Serological Studies of the Blood of the Umbilical Cord and the Reiro placental Blood (Etudes de sérologie comparative entre le sang du cordon et le sang rétro placentaire) Gynte et obst 1928 xvi 283

In a series of observations extending over a period of two years Chappaz of the Rheims Maternity Hos pital compared the usual serological reactions occurring in the blood of the cord and the retroplacen tal blood at the time of delivery. He found that in the blood of the cord the Hecht reaction is usually worthless In 58 of 150 cases selected at random the results of the tests of the blood of the cord and the retroplacental blood were contradictory. In 52 of these 58 cases the reaction was positive in the retroplacental blood. In order to ascertain whether the retroplacental blood has special properties which made the positive reactions without significance blood taken from the arm of the mother at the elbow was also tested. The reactions of the latter agreed with those of the retroplacental blood but were a httle less marked

httle less marked. The author takes a sample of the retroplacental blood as a matter of routine whenever possible when the reactions are negative the taking of nu merous samples in the ordinary examination for the Wassermann test is thereby avoided. If the reactions are positive a sample is taken from the elbow and two results are obtained with the inconvenience of the control o

position should always be diagnosed hefore the

50

Bons deformity of the pelss and obliquity of the axis of the uterus may give true to a face or hrow presentation. The latter can often be treated by the use of a binder. Transverse and oblique presentations shoul I be identified before the coast of fabor and treated as necessary. A bretch presentation shoul I be disposed easily and hydrocephabus fairly

The application of forceps before complete dilatation of the cervix is a most dingerous procedure. This should be strongly impressed upon the medical student.

I midwife should not be allowed to care for a pregnant woman unless provision has been made for a careful examination of the patient by a physician before labor is due

Define capor is one.

Sixwi resueva cases in which a large number of cranistonies were performed. He states that a large number of the balues could have been seved by casacren section but the risk to the mother sould have been such greater. In 3 y a case collected in 1911 from the littinst liste by folloain the mortality from existent section was 1 of per cent when the form the form as 1 of per cent when the nortality of the control of the period of the period

Shaw states that poor obstetancal results are prohably due to apathy and the lack of sufficient obstetancal instruction in schools. Both the medical profession and the latly fail to realize the risks of labor and, the fact that special knowledge is neces-

sary for the skillful treatment of abnormal cases In the opinion of the laity labor is a normal natural function. If it ends successfully it is no credit to the doctor or the nurse but if anything goes wrong the attendants must be to blame. A practical outcome of this belief is that very small remuneration is paid for attendance upon a maternity case The physician is expected to be able to bandle any abnormality If he realizes that the situation requires someone more experienced he feels that this means a loss of his prestige in the eyes of the patient and that he will be blamed for theestra expense Until the public realizes the skill time and patience required in every maternity case and is willing to pay commensurate fees so long will the temptation remain to hasten delivery by every available means

Students should see and stiend a greater number of cases than they are now required to attend and should be obliged to spend more time in materalty wards

Careful antenatal observation is very important as is also anti epsis. The obstetrician must not be influenced by the patient's relatives. He must be patient and realize that the cervix may be very slow in dilating completely. The application of forcess.

with the head at the brim should be a tire pocedure since constrain section is preferable. The position of the head should be diagnosed definitely before forcers are applied. Printe H. Asyot M.D.

Nathanson J N Anatomy Genesis and Ciolei Lonsiderations of Placenta Accreta in 5
Obs & Gynec 1918 xvi 44

Nathanson di cusses the chology anatomy pethology and clinical aspects of placenta accreta and reports a case in detail. He states that no rever he made of the histories of ,5000 patients admitted to 3 large obstetrical hospitals to determine the frequence of the condition he found only 4 cases.

The microscopic anatomical examination retributed in the microscopic anatomical part of the defined basalta which accounts for the distinctly in the variation of the placents from its normal site of mplantation. It is possible that any procedure who leads to atrophy of the endomentum such as present amount removal of the placents or curtley, many be a precisivenyous fraction in the development applicant accreta. It is probable that the condition may result also from improper development of pathological change in the corpus luttern which a mown to control the development of the

Unlest previous manipulations have been mist produce partial detachment the condution are ognized by failure of separation of the justents adstence of bleeding. The dampon is scoroborated by exploration of the uterus and failure to firl a blee of cleavage hetween the placents and the uters. The only rational treatment is hysterectomy as offers the best chance for recovery and print offers the best chance for recovery and print of the condition of the print of the print

PUERPERIUM AND ITS COMPLICATIONS

Sherman W O V Uterine Sterlitzation S

In the treatment of uterine infection following the livery or abortion the author uses Dakin solution. This solution is introduced into the uterine cast under just sufficient force to keep it from entering the failupain tubes. From 4 to 8 oz are allowed to flow in every hour.

Sherman reviews 283 cases treated by this method with 20 deaths. The duration of the treatment averages three or lour days. The effect of the treatment is noted in the progressive diminution in the bacteria in the lockia.

Because of the spectral apparatus necessary is advasable that the treatment be carried out only is well equipped hospitals and by skilled operators. The best results are obtained in the so called juind puerperal septic endometrits of mixed bacterious with marked submyoultain of the uteros. When extension to the parametrium is suspected the method is contra indicated.

MAGNES P DEARS MD

brought over and across it small bits of fat being placed under the sutures to keep them from cutting through the renal tissue. This stage of the resection is completed by capsular suture and nephropexy is then done.

Partial nephrotomy with dilatation of a con stricted callyx or the removal of a stone from a callyx was practiced twice in each case with transrenal drainage of the pelys and a successful result

Hastic operations on the ureteropelvic juncture performed for constriction in two cases. In one case a longitudinal incision of the constriction was followed by transverse suture. In the other the constricted area was resected and terminolateral anistomosis was done. Transrenal dramage and epithopoly were performed in each instance.

Temporary drainage of the pelvis by the transrenal route has been applied in the treatment of minor distantions with infection resistant to ordinary methods of pelvic lavage. Nephropers is performed with this procedure as in other operations. Papin has used this treatment in about fifty cases and has

found it very successful

Hesides the procedures described Papin bas found unimerous combinations necessary depending upon the indications. These are: (r) angle nephropex (s) denervation and nephropex (s) section of a vestel and nephropex (a) pelvic dramage and nephropexy (f) resection of the pelvis dramage and nephropexy (f) resection of the pelvis dramage section of an about a local control to the pelvis dramage and nephropexy (f) resection of the pelvis anatomous dramage and nephropexy (f) resection of the pelvis dramage and nephrope

Maxion in closing the report stated that he agreed with Papin that nephropery is an important part of the treatment. He believes that in many of the eases reviewed in which the kidney was low simple suspension alone would have accomplished as pood results as the more complicated procedures life regards Papin as results from partial resection of the kidness in cases of dilated cally and dilatation of the constincted neck of a cally as excellent. He believes that the condition is the result of the constinction to the condition is the result of the condition is the theory of the condition is the death of the condition is the condition of the condition in the condition is the condition of the condition in the condition is the condition of the condition in the condition is the condition of the condition of the condition is the condition of the condition

VICTABLE L MASON MED

Andrén G Contribution on the Pyelographic Diagnosis of Renal Tuberculosis teta radiol 1928 rt 289

Andren states that the characteristic feature of the prelographic picture of relatively early renal tuberculosis a the presence of signs of infilitration of a signs of the condition definitely and was verified by pathogon anatomical examination after operation of the condition of the condition of the signs of the condition of the signs of th

Dick B M Staphylococcal Supportative Nephritis (Carbuncle of the Kidney) Brit J Surg 1928 vi 106

The author adds three cases of carbuncle of the kidney to the twenty seven that have been reported in the literature and discusses the etiology clinical features diagnosis and treatment of the condition. The believes that carbuncle of the kidney may be diagnosed with considerable accuracy and is a distinct pathological and clinical entity.

JOHN G CHLETHAM M D

Gruber C M The Peristaltic and Antiperistaltic

Movement in Existed Urelers 2s Affected by Drugs J Urol 1928 xx 27

In experiments performed by the authors on

In experiments performed by the authors on excised long segments of the ureters of pigs. Spon taneous peristaltic and antiperistaltic contractions were observed. In some cases they occurred as long as one hundred and eight hours after excision of the ureter. Fluids plied in the lumen of the ureter were propelled from the kidney end toward the blid dereind during peristalisis and in the reverse direction during antiperistalism. The force of the ureteral contraction was dependent upon the rate of contraction. Stronger contractions were always noted after longer periods of rest.

The effect of temperature the hydrogen ion concentration of the solution epinephrin urea acetyl choline and meotin were also determined Ions P.O. Fit. M.D.

John P O VER ALD

Cabert J Cystle Dilatation of the Ureter Strangutated at the Urethril Mentus (Dilatationky stique de lucetère etrangle au méat urétral) J à urol méd et cher 1928 xxx 468

The author reports a case of ureterocele on the left sade which prolapsed into the urethral meatus At first the sac emerged from the urethra intermit, entity but eventually it became strangulated and gave rise to urnary retention and gangeries. Before the prolapse there had been no vessuals with promotion and the production of the pro

As the ornice of the right ureter was abnormally small the author believes that the ureterocele on the left sade was due to a similar but more marked malformation

Hunner G L Calculus of the Upper Urinary Tract Treated by New Methods End Results J Leol 1918 xx 61

The author emphasizes the important causal relationship existing between urterial structure and the formation of calculi in the upper unnary triet. Clinical experience indicates that urterial size is usually formed in the inflammatory strictured area of the urter and are not as was formerly between darking stones which have become lodged in the urters secondaryly.

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Davis J F The Surgical Pathology of Mulforma tions in the Aldneys and Ureters J Leal 1028

I ollowing a review of essential features in the functional and structural development of the unarry excretory processes from the Iswest to the highest forms of life the author discusses the com parative anatomy of the Li liess of animals having mature I principlese and mesonephric develorment and the occurrence and etiology of renal malforma tions in animals and man He reports a study of twenty cases of human congenital polycystic Lidney in subjects ranging from a fetus of five months to a man sixt) five verrs of age | mail O Nett MID

Chevassu \ The Study of Hydronephroses by Ureterography (Le hydr nephroses et leur étude au mojen d Tureter graplia) Bill et mem Soc nit de thir 1924 hiv 900

Chevassu criticizes Lamin's recommendation of surgery in all cases of hydroneithrosis on the basis of the findings of ureterography Chevassu believes that in mil I and partial ca es of hydronephrosis re moval of the cause of the obstruction may cure the condition and that ureterography is not as yet far enough develope I to justify operation in all cases on the basis of its results. In support of his opinion he calls attention to the fact that the variation of the caliber of the ureters in different persons may give rue to errors of interpretation. Moreover the injection may not disten! the ureter completely the result suggesting the presence of narrowed and dilated zones when such zones are absent and in very sensitive patients it may overdi tend the ureter and mask sones that are narrow Even if a constricted zone 1 seen it may be normal or it may be due to a transitory contraction of the preter or a more persistent contraction in the form of spasm Spasm of the preter is the condition most apt to be interpreted incorrectly. The persistence of a decrease in caliber at the same point indicates a true contriction but the patient often objects to repeated examinations

The greatest defect in ureteropyelography is the difficulty in differentiating between permanent and temporary conditions There is nothing to show that a dilatation of the pelvis or ureter seen at one examination is irremediable f veloscopy has shown that in spite of consi lerable dilatation of the renal pelvis the kidney may function almost normall, Even if there is a certain degree of infection disin fection of the urine and catheterization of the ureter may greatly improve the condition if the dilatation is not too great

In conclusion Chevassu urges that cases of hi dronephrosis I e studied carefully and systematically before operation is undertaken

ALDREY G NOX IN M.D.

Papin F : Conservative Operations for Hydro nephrosis (the quelques opérat ous concernation clans les hy Ironéphroses) Bull et mem Soc al de 1028 liv 600

I apen reports a series of eases of hydronephrosis which were treated by conservative operation and MARION who reall apin a paper before the Society discusses the etiplogy of the condition

I apon a cases were all congenital by dronephrose In the treatment the attempt was made to save as much functioning renal tissue as possible depending upon prelography to determine the extent of thr condition I apin completed every operation with a nephropers which he considers an important step in the procedure He performs nephropery according to his own technique The superior pole of the kid nes is transfixed from a to a 5 em below the apes with two long catgut sutures tied on either side our bits of fat taken from the subcutaneous tissues These autures are then passed at a distance of about an such from each other through the intercostal space above the eleventh rib and tied The fatty capsule is then sutured to the twelfth rib forming what I apin ealls an infrarenal hammock

Lartral resection of the pelits of the ki her was clone in seven cases and was successful in all la one however nephrectoms became necessary later possibly because of failure of the nephropexy to hold fartial resection of the renal pelvis is applied to dilatation of the pelvis without obstruction An area from the medial lateral or anterior surface of the pelvis is resected and the pelvis resutured Drawage is established transrenally by passing curved trocar through the renal parench ma and drawing a small drain through the opening thus made into the pelvis. This drain is left in place for about filteen days lavage of the Lidney being at

times carned out through it

I apun recommends partial resection of the laines whi h was performed successfully in two cases for eases with dilatation limited to a large call's and believes it is the only treatment for such cases The extent and character of the dilatation having been determined by pvelography Papin moses the kidney (superior pole) transversely so as to cut acro s the dilated alax intro faces the index finger into the dilated call t temporarily compresses the renal pedicle by a rubber sound and performs ap inverted conical resection of the parenchyma sur rounding the diluted cally. The cally as then sutured with No oo catgut and the parenchym3 brought over and across it small bits of fat being placed under the sutures to keep them from cutting through the renal tissue. This stage of the resection is completed by capsular suture and nephropexy is then done

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found it very successful

Besides the procedures described Papin has found uniwerous combinations necessity depending upon the indications. These are (1) single nephropers (2) denervation and nephropers (3) section of a vessel and nephropers (4) pelvic drainage and nephropers (6) resection of the pelvis drainage in the pelvis drainage and nephropers (6) resection of the pelvis drainage and nephropers (7) resection of the pelvis anastomosas drainage and nephropers (7) resection of the pelvis anastomosas drainage and nephropers (8) resection of the pelvis anastomosas drainage and nephropers (8) resection of the pelvis anastomosas drainage and nephropers (8) resection of the pelvis anastomosas drainage and nephropers (8) resection of the pelvis anastomosas drainage and nephropers (9) resection of the pelvis anastomosas drainage and nephropers (9) resection of the pelvis drainage and nephropers (1) resection of the pel

Maxiov in closing the report stated that he agreed with Papun that nephropery is an important part of the treatment. He believes that in many of the cases reviewed in which the kidney was low simple suspension alone would have accomplished as food results as the more complicated procedures lie regards Papun a results from partial resection of the buliness in cases of distated calive and distantion the buliness in cases of distated calive and distantion rejects the neuromuscular theory of hydronephresis believing that the condition is the result of observation by a calculus constriction tumor abnormal vessels or low position of the kidney.

VICHAEL L MASON M D

Andrén G. Contribution on the Pyclographic Diagnosis of Renal Tuberculosts. Acts radiol 1928 1x 289

Indiren states that the characteristic feature of the prelographic picture of relatively early renal tuberculosis is the presence of signs of indification of a calp x will and of narrow fistilous tracts extending from this area. He reports two cases in which the diagnosis was made by prelography after other methods of examination had failed to indirect the nature of the condition definitely and was venfice by pathologico anatomical examination after operation.

Dick B M Staphylococcal Suppurative Nephritis (Carbuncle of the kidney) Brd J Surg 1928 xvi 106

The author adds three cases of curbuncle of the kidney to the twenty seven that have been reported in the literature and discusses the etiology clinical features diagnosis, and treatment of the condition. The believes that curbuncle of the kidney may be diagnosed with considerable accuracy and is a distinct pathological and chinal entity.

JOHN G CHEETHAN M D

Gruber C M The Peristaltic and Antiperistrictic Movement in Excised Ureters as Affected by Drugs J Urol 1928 xx 27

In experiments performed by the authors on excised long segments of the urcters of pus spont attenues persistility and antispensiality contractions were observed. In some cases they occurred as long as one hundred and eight hours after excision of the urcter. The production of the latest production of the production of the production of the latest production of the urcteral contraction was dependent upon the rate of contraction Stronger contractions were always noted after longer periods of rest.

The effect of temperature the hydrogen ion concentration of the solution epitephrin urea acetyl choline and micotin were also determined tons I O Fil. M.D.

JOHN I O VIII AID

Cibert J Cystle Dilatation of the Ureter Strangulated at the Urethral Meatus (Dilatation kystique de luretère etranglee au méat urétral) J durol méd ét éhir 1928 xvv 468

The author reports a case of ureterocele on the fits dee which prohipmed into the urethral meatur. At first the sace emerged from the urethral meatur at first the sace emerged from the urethral intermit into the unit of the control of the control

As the orifice of the right ureter was abnormally small the author believes that the ureterocele on the left side was due to a similar but more marked malformation.

Hunner C L Calculus of the Upper Urinary
Tract Treated by New Methods Lnd Results
J Usel 1928 xx 6:

The author emphasizes the important crusal relation hip ensiting between ureterial structure and the formation of calcul in the upper urmary treet. Clinical experience indicates that ureterial residuality formed in the inflammatory strictured area of the ureter and are not as was formed) believed kidney stones which have become lodged in the uriter secondaryl.

Chincal experience has suggested also that a calculus in the kidney may be a uncteral stone formed in a strictured area which has migrated into the kidney as the result of dilatation of the uncteral channel above the stricture

However most renal calcult undoubtedly ong inate in the kidney and in all probability their formation is due largely to the urinary stass caused by

ureteral stricture

It is emphasized that the presence of uneteral structure and the consequent unarny stass are not the only factors necessary for the formation of stones in the upper urnant ract if they were such stones would be far more numerous. Rosenow and Messer have been able repetitely to cause the formation of renal calcul in dogs by producing a closus of infection at the roat of a destabated tooth by inoculating streptococcy grown from the urne of patients with multiple recurrent calcult, heyever was able to produce criculti in the kidneys of rabbits by feeding extrements.

The author urges that as their contribution to the solution of the problem chinicians make careful observations of every pritient with urmary cafeolus with regard to the possible effect of chimate diet metabolism infection and other factors supposed

to influence the formation of calcult

He states that most patients with calculus in the
upper urinary tract are subject to some form of

unnary stasis and the most frequent cause of the

stass is ureteral structure.

Structure can be demonstrated not only on the side of the calculus but also on the other side. The symptoms and many of the pathological changes which were formerly ascribed to the presence of a stone are nobably due more often to stass; cause

which were formerly ascribed to the presence of a stone are probably due more often to stasis caused by one or more strictures. In dealing with calculus in the upper urinary tract our chief concern is the establishment of ade

quate renal drainage. The advantages of such drainage may be summarized as follows 1. Thorough ureteral dilutation leads to the

g Inorough ureters direction leads to the spontaneous passage of a large percentage of ureteral stones

The use of the various ureteral stone extractors is facilitated and made less dangerous 3. The total kidney function is increased and

3 The total kidney function is increased a the general health is improved

4 In some cases the patient is changed from a poor operative risk to a good one

5 In many cases in which operation is cootra indicated on account of advanced age obesty cardiac or lung lesions or other conditions the patient is made more comfortable and his life is pro-

6 Operation may be deferred for months if necessary to meet the convenience of the patient

7 If the working capacity of one kiddey seems to be zero at the time of the first examination the dilatations may be kept up for at least a month to determine whether this kidney can be made to resume effective function. This is of great value in

deciding helore the operation whether a radical or a conservative procedure is best.

8 Prolonged postoperative sinus drainage is avoided and a much higher percentage of the patients leave the hospital without urinary infection

The tendency toward the recurrence of calculus an the kidney operated upon and toward the formation of a calculus on the opposite side is

decreased C Ruffleroad O Crowler MD

Foley F F B : Uretero-Ureterostomy as applied
to Obstructions of the Duplicated Urper
Urlnay Tract J Url, 1933 x 109

The author reports a case of obstruction at the lower end of the urefer due to a calculus in whi he performed a unelero uneterostomy. He states that even when the obstructed half of a duplicated kidney is built damaged by hydronephorus unetero-interesting is free from the dangers of bemnepheretomy safe to be preferred to hemicapheretomy if the safe is the property of the safe in the safe

of the Lufery. It is especially indicated when the opposite kinder, is absent or seround; impaired had to-end anastomess with resection of these ment of urier between the ansatomess is with point of bifurcation may be done or side to whe open to differ the work of the contraction of the urier is in the case reported. Under certain creamstance anastomess of the two pelves rather than of anastomess of the two pelves rather than of

serious objection to leaving the hydronephrotic half

ureters might be more effective
J Sinvey Ritter M D

kidd F The Stump of the Ureter After hephretomy The Indications for Primary hephro Ureterectomy Bril J Surg 1018 av 12

Aidd states that before a nephrectomy is unde taken the condition of the ureter should be deter mined as in some cases the removal of the ma portion of the ureter in addition to the kidney with be found to give very much better after results than nephrectomy alone In the past when silk was used for figating the ureter symptoms of renal colic fever and strangury sometimes occurred during con valescence and later a stone occasionally formed around the silk ligature Subsequently the tone and the figature were passed or a second operation was necessary for their removal. Even when silt was superseded by catgut the same postoperative complications arose Such attacks were relieved by the passage of a quantity of pus in which portions of the catgut were often present

The contents of an infected ureteral stump may discharge themselves persolucially with attacks of fewer coluc and strangury or may leak into the surrounding itsuses and set up a mass of dense fluor fatty this use containing loculated masses of pust and even urane causing severe symptoms unless a secondary neterectomy which may be a ve y formulable undertaking is carried out

The more common indications for primary nephro ureterectomy are (1) hydronephrosis sim ple or infected in which the stricture is low down in the pelvic ureter (2) pyonephrosis or atrophic hollowed septic or aseptic kidnep secondary to a stonelong impacted in the pelvic ureter and (3) tuber culous pyonephrosis associated with an inflamma tory stricture in the pelvic ureter

Rare indications are (r) papilloma of the renal poless with secondary deposits in the urter (a) primary carcinoma of the ureter (a) congenital opening of the urter into the wall of the vagina associated with congenital cystic or atrophic kidney (c) ectopic pelox kidney (s) heminephrectomy for horseshoe kidney associated with infected stone and (6) primary fibrofacts urterates in which infection

has extensively damaged the wall of the ureter but has left the kidney comparatively free

In the technique used by the author the kidney is exposed first and is freed with the lumbar ureter. The kidney pedicle is divided in the usual manner and the ureter is champed as low as possible and divided with the cautery or with the kidney still attached is left suspended from the lower end of the wound. The wound is then stutched up and draized and the patient is turned on his back. In the easier types of cases the ureter is found through the author's muche splitting operation. In the more difficult cases with obstruction in the ureter as provided when six the bladder wall the ureter is approached by a midline or paracentral neisson with the recursion with the recursion of the provided in the control of the provided in the provided in

BLADDER URETHRA AND PENIS

Fdelman L Muciparous Glands in the Mucosa of the Urinary Bladder J Urol 1023 XX 211

Edelman reports two cases in which operation was performed for the ruled of frequency, dysuria and harmaturia and prior to the operation an accurate diagnoss had not been made. In the first case all of the routine urinary tests were negative but cystoscopic examination showed a polypoid edema behind the trigone which extended laterally. This hipertrobinded itsized below the trigone which extended laterally.

In the second case in which a diagnosis of car cinoma engrafted upon an old syphilitic lesion was made microscopic examination showed the bladder wall to contain a glandular structure which under

normal circumstances does not belong to any part of the bladder structures

According to Gray there are no true glands in the mucous membrane of the bladder. In Piersol's opinion the glands under discussion represent abor tive prostatic tubules which were displaced during development.

Storck and Zukerkandl have reported three cases in which microscopic examination showed the de velopment of intestine like mucous glands in the

bladder wall

It has been suggested that adenomata of the bladder have their origin in the embryonal rests from which such glands develop According to an other theory the condition is a prohleration and

metaplasia of the surface and not a true gland formation

As the symptoms are not characteristic the diag nosis can be made only by microscopic examination of the removed tissue

The treatment is either excision or destruction with the cautery Elmer Hess M D

Morson A C Observations on the Radium Treat ment of Vesical Carcinoma Proc Roy Soc Med Lond 1928 xx 1655

After fifteen years expenence with radium the author concludes that the most important advance most range and advance most range and advance and and malagnant was Cantis observation that fibroblasts are not destroyed by comparatively large does of radium and that fibrous tissue is the protective reaction of the body in its resistance to malignance. Drew demonstrated that fibroblasts inhibit the growth of malagnant tumors outside the body

The author's technique for the treatment of vesical carcinoma is based on the observation that fibriblasts restrain cancer cells and that they resist radium seeming even at times to be stimulated by it Before the treatment is begun the relation of the

Before the treatment is begun the relation of the tumor to such structures as the utter rectum and large vessels must be noted. In the application of the radium care must be taken to prevent construction of the ureter from fibrosis resulting from the irradiation and it must be borne in mind that radiation in close proximity to vessels may result in thrombosis. Transurethral access to the tumor requires the services of an expert eyistoscopist. The exact extent and character of a bladder tumor are difficult to ascertain through the cystoscopie especially. Of stoceopies application of the call discussion of the control of the contr

Careful observation of a bladder tumor is possible only by suprapube cystotomy. The technique is destribed in detail. The tumor is exposed so that a vaulal and digital examination can be readily made through the suprapuber incision. Binanual examination with one hand in the bladder and the other between the external bladder wall and the bony pelvis receists the caset extent of the tumor and its rela-

tion to the wreter blood vessels of sue and nerves. Papillomatous tumors are tracted by transfiring the peticle with 0.5 mm platinum applicators with a sufficient dosage to insure complete destruction of the cells. The amount depends upon the sue of the tumor. The duration of exposure is twenty four hours. Sallworm gut attached to the radium protudes through the sutured bladder and abdommal incisions and is used to withdraw the radium at the and of the exposure. In ulcerative types of lessons radium applications are inserted into the bladder wall around the persphery of the ulcer and sufficiently close together to insure lethal irradiation to evern malignant cell. Radium is burned also in the external

bladder wall with strings attached for its with drawal through the same incision

On the basis of experiments carried out by Cope land the author injected a bladder tumor with a per cent fluorescine before irradiating hoping for increased action since fluorescine gives off secondary rays under the Influence of rudium rays. The result was encouraging.

Sepsis must be endicated before tradiation and guarded against during the reaction. After the tradiation himoerhage is stopped within a few hours. The immediate local and general results are encouraging. The remote results vary with the size encouraging. The remote results vary with the size control shoughing after three months. Better results control shoughing after three months. Better results control shoughing after three months. The removal twenty four hours than with smaller amounts for twenty four hours than with smaller amounts for many days. Cash instores are reported in detail.

The author concludes that while verical carcinoma cannot be cured by reduction alone shankage even to apparent disappearance can be brought about and hamorrhage can be controlled by such treat

In the discussion of this report Thouses

Waters stated that fibroblasts also are destroyed when the dosages a sufficient. He cited layorable and unlayorable experiences with radium. He believes that the use of radium in the treatment of bladder tumors should not be restricted to cases in which other measures have failed. In cases of operable tumors however eadium irradiation is not ad vivible as it endees operation difficult.

Nexus stated that he prefers the use of smaller amounts of cultum over a period of from five to four teen days to the administration of the same dosage

in a few hours

There described the implantation of glats or platinum walled ration tests for long continued removed for long continued removed for long continued removed for min theckness should not be placed in the blidder in greater numbers that eight of test at time. Soughing and spits are less frequent if divided implantations are made. Not reported twenty three claes of bladder tumor treated with radon implantation after electroscipalition. He stated that in mahignant timeses of the bladder partial cystectoms is the method of choice Lat the utered careful use and observation of radium.

Mossov in concluding the discussion repeated that in his opinion fibroblishs are the most restant of all cells to irradiation. He believes that before long he will use radium in operatify cases. He emphasized that large doses for a short time are less deviationing to normal structures than small amounts for a long time. He prefers radium salt to emansition implicits.

Mouat T B Urethral Diverticula Be ! J Surg

After presenting a classification of urethral diverticula the author describes several cases re

ported in the literature to illustrate the various types. He reports two cases of his own in detail and discusses the etiology diagnosis and treatment of the condition for Curring MD

Aidd F Milligan E T C Ward R O Ward F and Others Discussion on the Treatment of Urethral Stricture and Flatulæ by Ercision Irac Roy Soc Ucd Lond 1928 xu 1935

Arms states that operations for usethral sincture are of two types (2) partitl excision a step of macros being left on the roof of the ranal (this ran) and (2) accision of a large portion of the usethral canal including the roof followed by usethral canal including the roof followed by Rossell). The advantages of the latter are that it does not interfere with the blood supply of the usethra or the power of execution and prevents recur

rence of the stricture
Russell does not open the bladder but exposes the
deep urethra behind the structure by the Young
procedure for perincal prostatections. MacLovan
advocates a preliminary suprapible cyslotomy two
weeks I clore the operation and pre operative ingetion of the urethra with methylene blue to map os'
the track of the stricture.

The steps of the operation are as follows

I In inverted 1 incision is made in the pen

2 The musculature of the perineum is exposed forward as far as the testicles or farther if necessary and backward sufficiently far to expose the central perined tendon

3 The central tendon of the permeum as attention with Joung a terrator and divided elose to the bub. The central tendon of the bubboca vernous mus. It is aplit and pushed aside from the corpus spoot sund and if necessary the transverse permeal muscles at cut. Russell also cuts the recto urethralis mustle to expose the membranous urethral

4 A Wheelhouse staff is passed to the streture and the urethra opened freely in front of this and

held aside by sutures

5 A retrograde lougie is passed from the blad der the deep wrether is opened upon it behind the structure and the wrether is held saide by adures In Russell a operation the deep wrether exposed as in permeal prostatectomy is opened behind the structure.

6 The tunnel of the stricture is theo followed up and split on its lower surface from the health's urethra behind to the health's urethra in front

7 The strictured portion of the urethra is then cut away altogether in contrast to the partial operation in which a strip of mucosa is left on the roof of

the wrethra 8 Russell than mobilizes the urethral stumps

makes flat ribbons of the urethra in front and be land sutures these ribbons together to form a new roof for the urethra fixes a perineal catheter into the bladder and leaves the floor of the urethra and the front of the wound open MacCowan passes # catheter from the meatus and sutures it into the deep urethra splits the mucosa of the two portions of the urethra into three ribbons and sutures these inbons up completely around the catheter. He then closes the perincal muscles around the urethra and leaving the suprapulue tube in the bladder for two weeks. The urethral catheter is left in place for training and at the end of two or three weeks an 18 to 20 F sound is passed gently once a week to the country of the control of the

Kidd has employed excision of stricture only for certain types of cases () those with a hard tunnel stricture which is palpable in the perineum from outside and does not respond to dilatation and (2) those with perined fistlute through which put and

urine escape

For old strictures and perincal fistula: Kidd has abandoned external urethrotomy and has developed a technique of his own. At the beginning of the operation suprapubic cystotomy is invariably done This allows for the passage of a retrograde bougie After its introduction the bougie is held in place and the patient is put in the lithotomy posi tion Through an inverted 1 incision the perincum is then exposed and all fistulæ and fibrous tissue are freely exciscil. A good result can be obtained only by cutting out all tracks and their surrounding thick fibrous tissue walls freely and boldly paving no regard to the superficial tissues and taking care only not to cut the compressor urethra muscle. In the next step of the operation the perineal muscles are defined as clearly as possible and after division of the central permeal tendon with preservation of the recto urethralis muscles the bulbocas emosus tendon ts divided the corpus apongiosum surrounding the urethra being thereby exposed in front of the stric ture and the urethra is opened on a Wheelhouse staff A retrograde sound passed from the bladder renders section of the posterior group of perineal muscles unnecessary The stricture always eems to he in front of the triangular ligament and can be cut out from before backward as far as the retrograde sound which bulges forward at the anterior layer of the triangular ligament. The distal portion of the urethra is then mobilized and the two ends of the urethra are united by a double crossstitch with a good bite in the ti sues outside the urethra. The lateral walls and floor of the urethra are recon structed around a sound passed from the mentus and the penneal muscle is stitched together again The sound is then removed and the superficial tissues are united partially around a gauze pick. The suprapubic tube is left in the bladder for two weeks I rom seven to ten days later a metal bougie of moderate cubber is droppe i into the bladder The wounds may leak for a while but complete healing usually results in three or four weeks Mer healing has occurred soun is are passed for a while

In he ld's opinion excision of the stricture combined with complete excision of the fixtulous tracks shoul i be done more frequently instead of external urethrotomy in cases of perneal fixtula with sinc

ture tunnel stricture in the bulbous urethra per sistent tunnel stricture after rupture of the urethra and possibly also tunnel strictures in the penile urethra These strictures usually prove very resist ant to internal prethrotomy and dilatation helieves that better results are obtained by supra pubic cystotomy and bold excision of such strictures Without suprapubic cystotomy there is danger of leaving a penile fistula. For cases of ruptured urethra Kidd advocates suprapubic drainage lol lowed by perment exposure the use of a retrograde bouge to identify the proximal end and suture of the roof only of the cut ends the perineal wound being left freely open without the introduction of an indwelling catheter. He gives I gr of thyroid extract by mouth every night for many weeks to soften the fibrous tissue of a stricture so that it will be more amenable to dilatation

MILLIGAN emphasizes the fact that the inflamma tory process responsible for a urethral stricture is almost entirely confined to the roof of the canal Most of the urethral glands and depressions infected in gonorrhora are situated in the roof of the anterior urethra and the resulting inflammators nodules are visible on the roof of the air distended urethra occasionally at the sides and very rarely on the floor Usually these nodules disappear under proper treatment but occasionally they are followed by fibrous tissue formation leading to stricture Tirst a signet ring and then a lunule or crescent of fibrous tissue appears which usually involves the roof but sometimes either or both sides and the roof This stage is detectable by urethroscopy No case of gonorrhora should be allowed to pass beyond A stricture in this stage which Milligan design nates as Type a is easily anil successfully trented hy dilatation with sound and dilators. Such a stricture becomes white toward its central lumen and ap pears entirely avascular being thus distinguishable from normal urethral lolds. At its peripheral margin it appears to be confined to the mucosa As the con dition progresses the stricture loses its pearly white color and translucent edges and becomes vascular ized and a light pinkish white. The free central sharp edges are then more rounded thick and arregular and the strictured area is more fixed on the subjected tissue indicating deeper penetration It this time the floor also is involved so that on distention with air the lumen is usually excentric toward the floor. The author calls strictures at this stage Type 2

With regard to the pithogeness of urchiral structure Millingan states that the normal position of the urctiral solid states and the urctiral salis are in the closed position most of the day and as a rule thoughout the might inflammatory products out poured plasma and cells render the issue unclastic towards and cells render the tissue unclastic unclassified to the control of the same of society of the salid states of milliammation the formal force of micturious has butled dattanged from the salid sa

In cases of Type r dilatation is satisfactory full dilatation can be established. It breaks the avas

cular curtain usually in the roof and as a rule with out causing hemorrhage. In more advanced cases only the dorsal part disappears leaving an in conspicuous smull raw area of healthy tissue. If no diluttion is practiced for a week the stricture reforms. This can be prevented by an inducling catheter. Most strictures are of this type.

In cases of Type 2 ranging from advanced stages of fibrous stricture to the stricture with fibrous tissue penetrating to the perineum the selection of the proper type of operation is difficult. In all strictures except those with perincal fistulæ and fibrous induration dila ation should be tried and the results gauge I by the maintenance of full dilatation as observed by the urethroscope. If dilatation fails in ternal urethrotomy should be practiced. This is usually successful because the cut is made in the mol of the urethra. The cut should penetrate past the fibrous tissue to health; tissue and should be held of en by an inducting catheter for several days to prevent recurrence. If the cut cannot be made into healths tissue in the roof a subsequent cut should be made more laterally blowever excession of the atticture is perhaps a better treatment for recurrences

Internal urethritomy to a most satisfactory operation because it is easy to perform cutes the decomposition for performs of the performance of the decomposition for performs cutes the sapple cable to multiple or single structures in the penils urethra but until we are able to select and classify structures according to the diepth of penetration of the fibrous issue it will be followed in a few cases by resurrence—cases more suited for primary excision of the stifts upon the size of the stifts used to the size of the stifts used to the size of the stifts used to the size of th

The cause of failure of external prethrotomy is failure to incise the roof of the urethra. In external urethrotomy the procedure should be the same as in internal urethrotomy Milligan believes honever that excision of the atricture is better than external utethrotoms. In cases of Type I this is quite easy The Russell technique is recommended Facision removes all stricture tissue and local diseased follicles which the other methods fail to do It holds the urethral walls apart immediately after operation until they are set in this position by outpoured lymph and by scar tissue. As recurrences are due to subsequent detachment of the urethra the passage of a full sized sound at yearly intervals is udvisable. In cases in which Milligan has exceed r or 2 in of the urethra he has found that it caused marked shortening of the penis. In cases of multiple strictures he excises the most extensive stricture in the permeum and does an internal methrotomy for nemie strictures

Milligan recommends excision of the stricture for times and easily managed by distation and in lernal urethrotomy. He states that if it were possible to estimate the depth of the penetration of the fibrous tissue in the urethra and the depth of the locusion with the urethrotome the selection of casts for suitable operation would be easier. At present this can be guessed at from the appearance of the structure through the urethrostope. All case of penneal fistalic with fibrous induration associated with structure are autiable for excession fisuchases other methods are unwise. All fibrous issue wherever seen, should be extended it tracts should be followed even to the ingulard reposs and lower abdomen and all fibrous tissue blood be cut how the urethra. All is ounds should be surrounded by can be treased in our properties of the root with the can be treased inception to the root without team on the permeal floor is not important. The author had excellent results from the technouse

R O Wasp states that he does not use the retractor After errosure of the corpus sponground the atricture is easily felt. Ward works away from the diseased part going well forward to di lodge the whole corpus spongio um from its bed. After a little di section with curved Maio scusors the finger can be passed around it. Thus the who: curcumference of the urethra is cleared in front of the stricture. In dealing with a fistula the blander should be opened first Bith a steel boughe from the bladder in position the prethra behind the sin ture es usually brought into view if not careful dister tion is necessary to expose it Usually Ward fin's the dilated part opens it and excises the stretured part If this is difficult the whole corpus spongosum being mobile in front is cut across just antemor to the stricture the thickened part is cut away and the healthy urethra is found belind it The torn ends are then sutured together I hen the atricture is close to the triangular ligament it is difficult to get the catheter to he so that it does not touch the suture line A stricture located half an ench in front of the triangular ligament is easily operated on but in strictures very clo e to the triangular ligament operation is difficult. Only the mucous membrane should be sutured. The whole thickness of the corpus spongiosum should be in cluded in the sutures to prevent them from cutting out Dilatation and internal urethrotomy are good methods of treatment but when a guide cannot be passed excession of the stricture or external prethiot omy is necessary. In Ward's opinion the latter is not very useful and is to be regarded as an opera tion of emergency For retention cystotomy is hecessary When a guide cannot be passed excision

of the structure is advanable.

I Wato states that if the urethroscope shows a disphragm structure which does not respond to three or four distances returnal urethroscopy in the distance of the structure of the pens and the structure of the pens in the presence of various severe structure ward cuts down upon urethra The passage of a guide helps the operation considerably. If a fillion became cannot be gassed into the bladder return the structure of the structur

Ward cuts through the stricture and does whatever seems indicated He has found that a silver catheter can be left in for a week without causing sepsis When the passage of a silver catheter is prevented by a large amount of fibrous tissue complete excision is the only course, especially if sinuses lead from the pubes or the permeum. The bleeding is not very severe

In a case of extravasation of urine after a severe injury adhesions to the perineum resulted and the permeum gave way alter each attempt at dilatation Ward performed a plastic operation turning a flap over from one side to the other Healing was very satisfactory but the urethroscope revealed hairs soon after the operation and four years later difficulty was again experienced in passing a bougie Ward therefore performed another external urethrotomy and destroyed the hairs with the cautery patient has now a perfect urethra formed of external

skin and is in good health Two eases of stricture of the anterior urethra are ested in which the stricture was 3 in in length extending to the penoscrotal juncture. In the first case that of a man seventy years of age retention occurred suddenly and only a filiform bouge could be passed Suprapubic cystotomy was done and later an artificial meatus was made in the perineum As only a filiform boughe could pass from this meatus to the end of the nems a modified Duplay operation was done The whole anterior urethra was recon structed from a longitudinal flap of skin

In the other case there was a fistula in the neno scrotal area and the procedure tried in the first case resulted in sloughing of the whole penis because of disregard of Young's statement that plastic operations should not be done on the anterior prethra unless there is drainage from the bladder or the

perincal wound

Ward is not convinced of the congenital origin of strictures of the anterior urethra. For stricture of the meatus which sometimes is associated with fibrosis of the penis and atrophy of the corpus spongiosum he recommends opening of the bladder or the formation of an artificial meatus in the permeum

WRICHT states that dilatation with filiform bougies and internal urethrotomy have several disadvantages. He has observed extravasation after the operation even when the catheter was retained The posterior urethra may be difficult to find but Wright relies on the observation that behind the stricture the urethra is always dilated. He cuts down on a Wheelhouse staff defines the surface of the stricture and then slices the urethra transversely until he reaches the dilated portion. Mohilization of the urethra is a very important part of the opera After excision it is important to secure approximation of the edges around a catheter passed into the hladder because a gap in the floor of the urethra favors fibrous tissue formation. Wright beheves that in the ordinary case suprapubic drainage has no advantages over perincal druinage. When it

is possible without going behind the triangular ligament Wright makes a small incision 1/2 in be hind the sutured urethra over a catheter passed into the bladder and through this incision passes another catheter for drainage This method gives results as good as those of suprapubic drainage. Wright be heves that an instrument should be passed as far as the retained catheter as early as the fifth day after the operation This will prevent adhesions between the floor and the roof of the urethra When the retained catheter is removed a large sound can be easily drooped into the bladder. For suturing the urethra Weight recommends figure of eight sutures with fairly large bites of the spongy tissues

In one case cited partial incontinence resulted

from interference with the sphincter BERTWISTLE reports some perfect cures from operation and also some recurrences the latter worse than the first stricture and probably due to insufficient excision of the diseased tissue

Morson states that excision is indicated par ticularly when the stricture is due to trauma. In gonorrhora measures to prevent stricture formation are most important. Morson believes that many severe strictures of the urethra are the result of

maltreatment by physicians

WHITE States that in his opinion the internal operation is far superior to external urethrotomy The worst strictures he has had to dilate were those following external wiethrotomy Occasionally he has seen strictures which would not admit even a filiform bougie However there are very few strictures which cannot be negotiated with such a bougie especially one of the corkscrew type if patience and the right kind of a guide are used. Urethrosconie studies show that strictures of the anterior urethra are not uncommon although they are not usually so far advanced as strictures in the hulb. In the average case of stricture of the bulb a number of early lunules associated with follicles can be seen within 2 5 in posterior to the navicular fossa. The strie ture is really an extension of the inflammation at that spot Internal urethrotomy gives successful results because all of the early strictures can be divided with the urethrotome and the follicles are also opened up

Huppy claims that the results of internal urethrot omy depend almost entirely upon the patient's willingness to return to the hospital at reglular inter vals for dilatation

In summarizing kidd agrees that internal ure throtom) is of value but states that in his opinion external urethrotomy should be abandoned He sluays excises fistulæ completely and has found that cases in which this is done require less dilatation afterward. He uses a very small urethrotome knife to avoid deep cutting with severe bleeding. He believes it is hest to make a small incision and then to stretch with large bougies Excision is applicable to both permeal fistulæ and difficult strictures The essential steps in the operation brought out by the discussion are

- T Division of the bulbocavernosus muscle in the midling to permit blunt expasure of the corpus spongrosum
- 2 Blunt dislocation of the corpus spongiosum containing the urethry in front of the stricture
- Resection of the stricture backward from the urethra so freed and opened until the dilated wrethra behin I the stricture is opened up

4 Suture of the roof of the urethra

The question as to whether better results are obtained from preliminary suprapulic cystotomy with dramage or permed dramage through the deep urethra is left open LOUIS SECRET MID

GENITAL ORGANS

LeFur R Operative Treatment of Abscess of the Prostate (Trait ment opératoire des abicés de la prostate) Junit chi 1918 at 36

Operative treatment is indicated for prostatic absces only when the abscess is of a certain size or having of ened into the urethra or the rectum can not be cured by ordinary measures such as massage of the prustate and progressive dilutation of the posterior urethra combined with copious urethro vesical lavage. The persistence of fever in spite of the spontaneous opening of a prostatic abscess and especially the appearance of periprostatitis is an indication for surgical intervention

The abscess may be opened surgically hy (1) the rectal route (2) the hypogastric route (when the patient has undercone a prior systestomy) or (1) the perineal route. The procedure of choice is

perincal prostatomy In the technique used by the author the skin is increed two fingerbreadths anterior to the anus from one ischiatte tuberosity to the other. The incision is made slightly convex anteriorly in order to avoid the rectum as much as possible. The posterior sur face of the urethra is then isolated because the deep incision is made immediately below it. The super ficial and deep muscular raphes having been incised the prominence made by the urethral sound is followed to the posterior surface of the prostate If both lobes are equally large and tense they are opened separately. The opening is made with a cannulated sound or a bistoury and enlarged with the finger the cavity of the abscess then being emptied very carefully and dramage established by means of a rubber tube

Dady lavage is begun one or two days after the operation. The dressings are change I daily as long as the suppuration ; abundant and when the supnuration decreases every two or three days. On the sixth or seventh day the rubber drain is replaced

by a wick Vacconotherapy is given by local application or subcutaneous injection. In case of nozing ham orthage the abscess cavity is tamponed with vicks moistened with hemostyl. If the hamorrhage is arterial the artery is ligated. In cases with a urinary fistula the wound is kept open. If the fistula does

not close as the wound heal it is sutured. When the fever and poor general condition persist a further prostatic or periprostatic focus is sought and tesis for a blood infection are made. If there are purulent fistula of the ischiorectal forsæ the obturator or the retropubic region an incision at the focus is

MISCELLANEOUS

Elsendrath D N Anurta Minnesota Med 1928 10

I sendrath divides cares of anuna into those of the obstructive type those of secretory anuma and the e of transition or combination anuna Appnas

of the obstructive type include t Umlateral block by calculus stricture injury or neoplasm the other kidney being normal The anurus in such cases is best explained by reflex in hibition of the secretors activity of the other Lidney

 Unilateral block with congenital absence lack of development or complete loss of Junction of the other kidney as the result of disea e injury or operative removal

3 Bilateral block from the presence of a ealculus

or stricture The secretors anumas include those doe to doturbances of circulation proximal to the last es itself and disturbances affecting the renal par

In the third group may be placed anurias follow ing transfusion burns and gas bacillus infection In these cases there is an obstructive lactor in the form of blocking of innumerable renal tubules by hamoglobin cristals and resultant interference w h the secretory activity of the parenchyma of the

from the standpoint of symptoms cases of anuria may be divided into those in which aside from the anuma there is complete absence of symptoms until the period of tolerance has bert passed those which present only minor degrees of intolerance and those in which the period of tol erance is very short (from tventy four to forty eight hours)

By period of tolerance is meant the interval between the time when the anuria is first noticed and the appearance of symptoms of uramit This interval varies from twenty four hours to twenty me days. In some cases there may be hiccough nausez vomiting slight muscular t vitching and frowsiness These must be looke I on as warning signals of the seivent of the period of complete intolerance. In the latter the two outstanding symptoms are comp ar ! convols ons

In diagnosis of the cause of anuria an early and complete urological examination is necessary to exclude the presence of an obstruction due to cal-u lus or strutuse of the ureler and to dimensh the percentage of cases allowed to progress so close to the end of the period of toleran e that relief comes too late

The secretory type of anuria may be differentiated from the obstructive type more rapidly by roentgen ography combined with cystoscopy and ureteral catheteraxion than by any other method. If cystoscopy shows two normally located ureteral onfices and in no obstruction is encountered when a ureteral catheter is introduced for a distance of from 35 to cm on both sudes the nature annot be of the obstructive type in ourner is obtained. The description is not to the control of the obstructive type in ourner is obtained. The description is not to the control of the obstructive type in our new solution and the body is unificated to determine the degree of nitrogen retention and how close the case has approached the period of intoferance.

The prognoss of secretory anuna is less favorable than that of aniura of the obstructive type. The therapeutic measures include the administration of large quantities of fluid by protectolysis hypoter mocipius intravenous administration or the use of the doudenal tube. Nerve blocking of the splanchine nerves has been advocated to relieve reflex inhibitions of the splanchine nerves has been advocated to relieve reflex inhibitions of the special process of

Decapsulation has been reported successful in cases of reflex annua but in bichlonde nephrosis its results have been less favorable. In obstructive anuru ureteral catheterization offers the best prognosis. It should be given a trul for forty eight hours but no longer.

The type of operation to be employed in cases in which all other methods have failed depends some what upon the preference of the surgeon Some surgeons prefer nephrostomy others pyelostomy and still others ureterostomy with removal of the calculus at the same stage. Much depends upon the condition of the patient. If operation is undertaken during the first days of anuria when there is no evidence of intolerance it is justifiable to remove the calculus which obstructs the ureter or renal pelvis and utilize the ureterostomy or pyelotomy for drainage purposes. If symptoms of intolerance are noted it is advisable to limit the intervention to pyelostomy under paravertebral anæsthesia and remove the ureteral obstruction secondarily. When the blood chemistry shows a total non protein nitrogen of 150 mgm per 100 c cm and a creatinin of 5 mgm neither non operative nor operative measures will be of much avail HENRY L. SANIORD M.D.

III WI I DIWARD WIN

SURGERY OF THE BONES. JOINTS. MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Coley W B The Differential Diagnosis of Sarcoma of the Long Bones J Bone & Joint Su e 1928 X 420

Coley applies the term periosteal sarcoma to all types of malignant tumor of the long bones which

are not of central origin

He states that In the diagnosis a good history is of first importance. This should include the nations a age the facts regarding the occurrence of local trauma the site of the neoplasm (shaft or end of the bone) the length of time the tumor has been present and the duration of the symptoms before the tumor appeared In the physical examination the chief determinations to be made are the color of the skin the presence or absence of dilatation of the super ficial veins the local temperature the consistency and size of the tumor, the occurrence or non-occur rence of pulsation and the condition of the ad racent joint

Of a group of 170 patients with periosteal sar coms of were between ten and twent; years of age 41 between twenty and thirty and 27 between thirty one and forty Therefore 135 were between ten and forty years of age. Of so patients with giant cell tumors at were between ten and forty

years of age The first symptom of sarroma of the long bones is pain of an intermittent and varying character which increases in intensity as the tumor grows

Trauma plays a very definite role in the development of the lesion Of the 170 eases of periosteal sarcoms a history of local injury was obtained in 87

and of the 50 cases of giant cell tumon such a his tory was obtained in 28

In decreasing order of frequency of involvement the bones affected were the femur tibia fibula humerus radius ulna and clavicle. In the femur the tumor developed most often in the distal end whereas in the tibia fibula and humerus it occurred

most frequently in the proximal end A tumor of small size and long duration is most probably benign while a tumor of large size and short duration which is accompanied by pain is almost sure to be malignant Myositis ossificans and

ossifying hamatoma must be ruled out A purple discoloration of the skin due to dilatation of the superficial veins overlying the tumor is strong evidence of malignancy However this is a rather

late sign

The consistency of a bone sarcoma may be described as firm but not hard. The neoplasm is softer than an ossifying hamatoma and harder than tuberculous osteitis. In the later stages at may become soft or even fluctuant. If a joint is involved at an early stage the tumor a probably not a sai coma The local temperature may be elevated but general fever is absent except in later stages with metastases

Roentgen ray examination may allow a positive diagnosis in (r) osteogenetie sarcoma with radiat ing bone lines at right angles to the shaft (1) miositis ossificans and (1) endothelioma In the interpretation of the roentgen findings it is necessary to know at what stage of the growth the mentgeno gram was made. In benign tumors the shadow is of more uniform density and has a more regular and sharply defined border than in mahgnant tumors

The author is not opposed to biops) as he is of the opinion that the danger of dissemination is theoretical rather than practical However he emphasizes the danger of infection and states that diagnostic bionsy should be limited to case in which a positive diagnosis cannot be made by the scal means He believes that in cases of central and giant cell tumors biopsy should be a part of the treatment It should not be limited merely to the removal of a small portion of the tumor but should consist in a complete and thorough curettage down to healthy bone. In tumors of the ilium biopsy should never be done as these neoplasms are practically all inoperable when they are first discovered

Aneurism may cause pressure necrosis of a lone simulating sarcoma but the clinical history and Wassermann test will aid in ruling it out Some difficulty may be experienced also in differentiating a Lwing tumor (codothelioma) from osteom) elitis In z case in which the bone lesion was thought to be subscute osteomy chitis even after operation and later proved to be an endothelioma the surgeon recalled that he had found the bone in layers buch a taminated structure is an important feature in the differential diagnosis In another case the condition was at first thought to be a sarcoma but as the pathological report was benign amputation was not done At operation the bone looked like normal callus but later the tumor proved to be endothe lioma and the patient died of metastases following amputation

In 2 cases coming under the authors observa tion myositis ossificans was mistaken for sarcoms because too much rehance was placed on a pathological report of malignancy Both patients recov ered after treatment was stopped

The difficulty in differentiating between chromo osteomyelitis and sarcoma is illustrated by 2 cases in which death occurred from metastases in the lungs after treatment had been given for eight months and three years respectively for osteom) hits The question arises whether in such cases the

original condition was merely an inflammatory process which later became malignant or whether the sarcoma cells were present from the beginning but so sparse as to escape notice on microscopic examination. The author favors the former view and cites 2 other cases in support of his opinion

Ostetis fibro a cystica may also resemble osteogenic sarcoma. If the patient is between five and fifteen years of age the tumor is more apt to be a

cyst than a sarcoma

The differentiation of bone sarcoma from syphilis should not be difficult in these days of the serological test. The luetic bone lession is rarely single and occurs most frequently in the tibial shalt and the clavitle

Tuberculosis of the bones is much slower in its course than sarcoma and the pain associated with it is less severe and is easily controlled by immobilization. In sarcoma the swelling almost always begins in the diaphysis, whereas in tuberculosis it begins

in the epiphysis

With regard to the differentiation of chondroms from aurona the author states that his expenses has led him to discount the importance of micro scopic examination especially when the tumor is growing rapidly. In the diagnosis of chondroms however the roentigen my so of great aid as the roentigeneographic appearance of the tumor is quite characteristic.

The endotheioma of Euing usually involves from a vinet to a hold of the shaft when it is first seen his tors of trauma is obtained in these cases about as frequently as in those of sarrous. Apparently the neopharm sometimes originates in the perosetum There is not much home destruction and the bone production takes the form of this lives parallel with the shaft. Frequently the skull by involved The tumor yield to the romagen ray radium and mweet forum more readily than strooms.

natest to tours more reasily turn's vitcous. While it is generally believed that a correct dazy noise between guant cell tumor and osteogene say rooms can be made on the biass of elimical and roentgenological existence alone at his been noted at the Hospital for Ruppured and Crappked that an other control of the say of the control of

Metusaes of stroma from one bone to another occur most frequently in the vertebra and ribo buch metastases honever are not so common as the of from trumom of soft issues. In several large enes of cases of car moma of the breast the met ience of loom metastass was found to range from 13 to apper cent. Ill pernephroma forms bone metas tases in about 10 per cent of the cases. The differential lagnosis of metasta es of hyperephromata is most difficult because the primary tumor is often

so small that it does not cause symptoms and there

Paget s' disease confined to a single bone may be mistaken for sarcoma. The author believes it is impossible to differentiate between these 2 conditions without a boips and microscopic examination. He reports a case with a lesson in the tibia in which every symptom and objective finding indicated lagets disease but litter developments prove the timor to be madignant. Amputation was done and the microscopic examination showed the neoplasm to be a chondrosarcoma. WILLIAM \$CLARK MD

Letiche R. The Problem of Osteo Articular Diseases of Vasomotor Origin Hydrarthrosis and Traumatic Arthritis Genesis and Treat ment J Bone & Joint Sur. 1928 x 492

In discussing the genesis of budarthrosis and arthritis of vasionator origin. Lenche says that trauma in the region of a joint produces at this level a hypersmic reaction. If this persists for longer than ten days it results in synovial osseous and cartilagenous changes. In this sensus in a joint of large size) it produces a true subacute aseptic syno usis with marked equations of fluid thus creating a by dratthrosis. In the bone it produces active rerelaction a leuman osteoporosis which is evident in reenigenograms. When the rarefaction reaches tached shows disturbance of nutrition and in places may be destroyed. Traumatte arthritt is then produced.

At the onset of the condition rest and the application of cold water or ice are indicated. Leruche has performed blood letting and has used leeches Massage mechanotherapy, heat and plaster of Laris ammobility are no accurate indicated.

I aris immobilization are confra indicated
When synovial and bony changes baye oc
curred Lenche uses hy lrotherpy without measure
for senous ca es he recommends surgery in the

form of sympathectom; and ramisection

Mannini R Lipoma of the Tendon Sheaths (Con inbute allo stud o derlipomi della guaine dei ten lim) Pl din Rome 1928 xxxv ez chir 364

The author reports a case of arborrescent lipoma of the tendon sheath of the superfinal flexor of the econd finger in a woman sixty seven; earso dage a case of sample lipoma of the sheath of the tendon of A hiles in a woman forty, five veras of age and a case of arborrescent lipoma of the sheath of the tendon of whiles in a box systems; except seven for the tendon of Vahilles in a box systems; exemples to the tendon of Vahilles in a box systems; exemples the same of the sheath of the tendon of Vahilles in a box systems; exemples the same of the same of

He states that simple and arbiorsecent lipomata of the tendon sheath are blastomata which are usually made up almost exclusively of fatts tissue in the cases he reports they were more or less nich in connective tissue. In some instances they grow shoult and remain circumsenhed in the tendon sheath artible in others they surround the tendon sheath artible on others they surround the tendon sheath artible on the state of the state of the sheath artible on the same sheath artible on the state of the state of the same sheath artible of the same articles. Their etiology is unknown. According to one theory, they are inflummatory, whereas according to another, they are tuberculous. Budogical tests for tuberculo is however have been negative.

The most frequent sites of such tumors are the sheaths of the extensor tendons of the fingers. The araborescent form is more common than the simple. In some cases crepitation has been noted, but it was not present in those reported by the author. Some of the tumors are painful and others ganiless.

The diagnosis is not particularly difficult but be cause of its elasticity and fluctuation the tumor may be mistaken for an abscess. The diagnosis is alded by the movement of the neoplasm with the move

ment of the affected tendon

The prognosis is good. Sometimes the tumor causes no disturbance at all. When function is disturbed it becomes normal after removal of the tumor. Removal of the growth is generally easi. The capsule should be dissected from the neoplasm and used to reconstruct the sheath.

ludger G Morgan M D

Baranger J Two Cases of Acute Osteomyclitis of the Spine (Deux observations d'ostéomyétics aigués de la colonne vertibrale) Bult es mêm Soc nat de chr. 1938 lu 739

The first case of a suite osteomy elits of the spin free protected by Barranger was that of a man tensity to years of age who while in apparently good health was seared with chills lumbar polies and headache. Three days after this stack the patient entered the hospital and for nine days remained in a someolent condition with a temperature of about 35 s degrees. C soon local agens were noted in the lower humbar region on the left aide. These were followed by continuous pain in the left leg and after a few days by the development of an abness in that for Jressive over the first and second tumbar verefront them over the first and second tumbar verefront them changes. The temperature resched to degrees C and the public ranged from two to two

At operation the tubal abscers was opened and you was demonstrated in the medillary canal. At a second operation a collar button abscess leading to the necrotic body of the first lumbar vertebra was opened by a paravertebral necesson in the lumbar region. Cultures yielded stapholococt. Later a focus developed in the upper end of the right but have a second and the proper and the past between the proper and the past between the proper and the past between the past of the past between the past of the past the past of t

The second case reported was that of a filters per old boy who had recently suffered from fururaculous and was seared with some clumbar pain child epitiass womiting and a fewer of 35 de grees C. Pressure over the spine of the first lumbar vertebra and the surrounding of the cut you have been considered to the surrounding of the cut your bours factuation developed in the region of the first lumbar vertebra.

At operation two days later a paracticle in cross on the left safe war made the center of the season corresponding to the center of the some of modelment. When the sacrolumbar mass war tracted year was executed which on culture pairly and support of the control of the control

Holm H Vertebral Tumors (Deber Wirbeltumores)

Destache Zi chr f Chir 2028 cerus 46

Lettebral tumors are rare. From 85 to 5 pt cent of them are acroniate The majority are fibroaccomata and are primary in the space. As cording to Guicke the so called hour glass to cording to Guicke the so called hour glass most constitute a distinct group of spinal canal tumor which in spita of their undoubted acroniations of structure are chinically rather benign and being sed demarkated, are operable

Carcinoma occurs in the vertebræ only me astaitically and because of the improvement in the early diagnosis of the primary tumor carcinoms of the apine is becoming correspondingly rare

Hypermephroma also occips in the spine in Markally and has an unfavorable prognosis.

Of the beings vertebral tumors the offense and chondroma are rare. Their diagnosis is facilitate by the reconfiger ray. As a rule they are rest to the spine of the sp

Not belonging to the vertebral tumors but jew deceang tumor like symptoms are the echaeococci cyats As a rule these began in the paravertical insuses and involve the vertebra secondarily. All publications on echaeococcus disease of the spi emphasize that the cysts occur most frequently in the upper thoratic and the lower lamb t vertebra of importance in the diagnosis of vertebral echieococcoss are a good history, the blood pactic (essingshina) the reorigine pacture. Yie albeig and (essingshina) the reorigine pacture. Yie albeig in the control of the progressis is poor, the condition on wally being fails.

Actnomy costs of the vertebræ has an equally un favorable prognosis. Luleke advises operation in every case since the effects of potassium iodide and

foundate of the vertebral column are extremely

uncommon They of ur most frequently in the

The diagnosis of vertebral tumors is difficult only in the earliest stages. The best aid is the roentgen picture made after the introduction of lipiodol into the spinal canal (Sicard). Sensitiveness of the vertehræ is not a certain diagnostic sign. For the diag nosis of the level of the tumor, the neurological segment diagnosis is indispensable

The treatment of choice is operation even for cases in which the period for radical removal is known to be past since decompression of the cord is followed by at least temporary improvement

is innowed by at least temporary improvement In conclus on the author reports in detail a cured case of chondroma of the cervical vertebra which was treated at the Heidelberg Clinic in 1926

Cotton A Giant Cell Tumor of the Spine with the Report of a Case Am J Rosnigsod 1928 22 18

The giant cell tumor of the spine discussed by the author is the tumor formerly known as giant cell sarroma. It is a benigh neoplasm and usually ecent at the ends of long bones. In about 3 per cent of the cases that have been registered the tumor.

was located in the spine The author a case was that of a boy hiteen years of sge who gave a history of an injury to the buttocks three years previously and a sprain of the lumbar muscles four months later Ilis back was stiff and painful and motion was limited in all directions. In the lumbar region examination revealed a kyphosis and a scoliosis with its convexity toward the left To the left of the fourth and fifth lumbar vertehra a large fluctuating mass could be palpated Deform ities of the left hip knee ankle and foot had resulted from posture and muscle paralysis. The roentgeno gram showed bone destruction of the left side of the body and of the processes of the fifth lumbar vertebra and of the left als of the sacrum marked bone atrophy nithout bone production and partial spondylolisthesis of the fifth lumbar vertebra. The intervertebral disk had not been destroyed

The pre-operative disgnosts was lumbosacral lotts disease with a lumba aboress. Surgical exploration revealed the bone destruction shown in the contigenogram and a cavity containing old hlood finable granulation tissue and loose preces of bone there were no indication of a tuberculous aboress. There were no indication of a tuberculous aboress cell tumor of the spine was confirmed by the pathological report on the tissue removel.

ifter the operation roenigen ray therapy was given and attention was directed loward correction of the deformities. Today two years after the operation some of the deformities still persist but the operation some of the deformities still persist but the operation some of the deformities still persist but the operation some of the deformities and the patient is apparently well

This case demonstrates that the disprisss of gasatic test used of the spane may be very district requiring the ail of the hi ton physical laborators and configering rate extramations exploratory operative with the configuration of the confi

because of the difference in the prognosis and treat ment of the various neoplasm

Reentger ray treatment should be tried if the condition is discovered early. As a rule a tumor mass develops before the patients seeks treatment and an exploratory examination is necessary. All of other timor tissue and loose bone should be removed and pressure on the cord or cauda equina should be relieved. The operation should be followed by sesteral courses of short wave length radiation. Deformutes should receive proper orthopedic treatment. Under such management, the prognosis is good. Recurrences should be treated in the same way as Dimary Frow list.

CHARLES II HEACOCK MD

Beer E Periostitis and Osteitis of the Symphysis and Rami of the Pubis Following Suprapuble Cistotomies J Urol 1028 xx 221

Beer states that every year for the last twelve years he has seen one or more eases of percostitus and ostetis of the symphysis and rams of the pubsis following supraphube prostatectomy or eysotomy. As the cause of these sequeler he suggests that traction on the attached rectum susceles may joau gurate a localized periositits which subsequently soreads

The clinical picture is very striking. When the patient tries to sit up or cough he experiences pain due to the pulling of the rectus muscles against the sensitive inflamed attachment at the symphysis In some of the cases the condition is very mild and becomes localized at the attachment of the rectus muscles but to the majority it extends without any fehrile reaction down along the descending ramus of the pubis causing pain and tenderness along the attachment of the adductor muscles which interferes with walking and separation of the thighs The disturbance may last for several months finally under appropriate treatment and with time seems to go on to resolution with restoration to health The physical signs are tenderness on palpa tion of the body of the pubis and if the process is fully developed along the descending ramus down to the ischium The roentgenogram of the pubis shows a fraying of the periosteum along the descend ing ramus and perhaps areas of absorption in the symphysis the descending rams and the body of the ischium which are due to the osteriis. As the areas of absorption often strongly suggest secondary malignancy the diagnosis should not be based upon the mentgenogram slone

GEORGE C HEYSEL MD

Henderson M S Giant Cell Tumor of the Upper Fnd of the Femur Report of Three Cases Itims sola Urd 1938 is 542 Henderson says that a definite diagnosis of giant

cell tumor should not be made in any atypical cale without exploration and examination of the tissue by a competent pathologist. Whereas in the past many radical operations were performed needlessly today there is danger that with the increasing dis semination of the knowledge that these tumors are benign patients who should be treated radically will be treated conservatively

At the present time the term giant cell tumor is applied to tumors that were formerly listed as giant cell sarcomata giant cell sarcomata of the epuls type hemorrhagic osteomy elitis and myelomata (a Briti h term which is still being used) The confusion that exi is is exilent from koloday 5 statement that hundreds of giant-cell tumors have been reported as sarcomata to the Registry of Bone Sarcoma by clinicians and nathol seists in all sections

of the country There are two divergent views regarding the origin of giant cell tumors. According to one these neoplasms are blastomatous whereas according to the other they are inflammatory. For the safety of the nationt it is probably better to consider them as of blastomatous origin until further proof of these inflammators origin has been established fin 54 per cent of the cases in the Mayo Clinic trauma appeared to be a definite etiological factor. There seems to be a close relationship also between osteitis fibrosa

cystica an I giant cell tumor Giant cell tumors are rare in children and the aged As they are of slow growth and rarely cause much discomfort they often reach a great size Not infrequently the sign that impels the patient to seek advice is a fracture. These tumors are most common in the lower extremities and are usually found at the end of the hone Roentgenograms show that the shaft does not continue into the tumor as it does in succoma but that at the juncture of the der In the wall of the tumor pregular trabecula tions are seen. The neoplasm may completely erode the spongiosa of the epiphysis and creep along the ligaments so that in advanced cases all roent genor raphic evidence of the normal structure of the end of the hone may be lacking However the tumor remains sharoly circumscribed and encage tan a thin shell of bone. In the advanced late cases the differ entiation from osteogenic sarcoma is difficult but it must be remembered that an osteogense sarcoma of such size rarely remains encapsulated

At operation the appearance of the tumor vanes greatly according to whether or not a tourniquet is used In cases of the vascular type of tumor a brisk hamorrhage will occur if a tourniquet is not used The older the tumor the greater the cacatra zation at the outer lavers and hence the less the ten lency toward hamorrhage In the terminal stages of certain tumors only fluid and a definite sac lining the interior of the lumor may be left

In each of the three cases reported in this article the tumor was situated in the upper end of the

femur

In the first case that of a girl of eighteen years the symptoms had been present only seven months The tumor was excised during the active period of growth when the vascular mass within the cavity could be scooped out After the operation roenigen ras treatment was given

The second case was that of a woman thirty nine 3 cars of age who had sustained an injury of the ho in a fall eight vears previously while she was I reg nant I ollowing delivery the condition of the hip improved and the patient had no more difficulty but a few years later when she was again pregnant the pain recurred. Two or three months before operation at the Mano Clinic she again became Peegnant but a miscarnage occurred in the second Roentgenograms showed an extensive month tumor in the upper end of the left femur which extended well up into the neck of the bone to the head involving the whole trochanteric area and down a short distance into the shaft below the level of the lesser trochanter Operation revealed a smooth fined cyst with walls containing many giant cells The cavity was packed with several pieces of bone taken from the tibia \ month later as the patient was leaving the hospital the bone fractured but five years after the operation she was able to walk dance and do her own housework and the roentgenographic and clinical findings indicated the occurrence of union that may well be described

as bony The third case was that of a woman aged twents four years who had been operated upon elsewhere the her f neck and trochanteric areas of the femur having been removed for grant cell tumor The tissue was examined in the Mayo Clinic laborators Five years fater a recurrence in the upper end of the femue was evident and excision was advised This case demonstrates the tendency of these tumors toward local eccurrence

In conclusion the author states that both of the patients with active lesions were anamic whereas the patient in whom the condition was in the ter

minal cosic stage was in robust health

FRACTURES AND DISLOCATIONS

Lindsay M & Related Motion in Fracture Treat ment A Preliminary Report J Bo e & Jo

21 6 1018 Lindsay discusses the ma sage and mobilization treatment of fractures recommended by Lucas-Championnicre and recently modernized by Mennell. He emphasizes that the massage is not the applica tion of pressure or force but a gentle thithmus stroking which is soothing and agreeable to the patient. The purpose of the effeurage is to relieve muscle spism. The procedure i extremely effective when early mobilization a indicated but its value b inversely proportional to the length of time that has elapsed since the injury In cases of elbow frictures reviewed by Lindsay it was usually continued for about twenty minutes. At the end of that time niteous oude oxygen was admini tered to permit gentle manipulation consisting in extension with moderate traction followed by acute flexion of the tomt The position of acute flexion was then main 3

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11

16

tained by a broad band of adhesive tape and the elbow elevated on pillows Thereafter the effleurage treatment was repeated daily for several weeks Movement in extension was stopped at the first evidence of discomfort After from fifteen to twenty days active motion was substituted for the so called

relaxed motion and special care was directed toward exercising the triceps muscle. All of the exercises in extension were done with the hand supmated PAUL C COLONNA M D

Scudder C The Operative Treatment of Recent Fractures Proc Roy Soc Med Lond 1928 XXI 168.

Scudder states that a surgeon who operates upon recent uncomplicated fractures must possess an adequate knowledge of the patient's physical men tal social and industrial status an exact knowledge of all of the conditions bearing upon the case per fect mechanical instrumental and physical equipment including access to \ ray apparatus a proved operative technique to which he is accustomed an understanding of the sensitive nature of bone tissue its reaction to injury and the conditions influencing the process of repair practical experience in the successful treatment of certain fractures by modern non operative methods a knowledge of the various tried and accepted operative procedures for approach to fractures and their immobilization and an onen mind in the selection of the method best adapted to the case in hand

Under tire ent conditions fractures fall rato three groups (1) those never operated upon (2) those usually operated upon and (3) those in which the advisability of operation must be regarded as doubtful

In the first group will be found Colles fracture most fractures of the clavicle many fractures occur ring in children and adolescents and many birth fractures

In the second group those usually operated upon are fractures of the greater tuberosity of the hu merus with displacement fractures of the surgical neck of the humerus with displacement fractures of the electannon with separation of the small frag ment fractures of the head or neck of the radius with such displacement of the small proximal fragment as would without operation produce limitation of ronation and supination and possibly limitation of elbow flexion and extension fractures of the shaft of the radius with di placement toward the ulna separations of the epi and his of the humerus which are not held by the acutely flexed position and tho e occurring in cases in which the acutely flexed post tion is contra in licated certain elbow joint fractures in a lults arreducible fractures of the shaft of the femur at an level di placements of the lemoral con is le fractures of the patella with di placement certain spiral or oblique fractures of the tibia and fibult fractures of the os calcis in whi h the line of fracture enters the astragalocalcaneal joint frac tures about the ankle joint which are difficult to hold and certain metacarpal and metatarsal frac tures

In the third group those in which the advisability ol operation is doubtful are fractures of the spine with immediate symptoms of a transverse lesion of the cord fractures of the humeral shaft above the middle and fractures of both bones of the forearm In conclusion Scudder states that it must afways

be borne in mind that the proper use of skeletal traction upon the condules of the femur the tibial crest or the malleoli or through the os calcis may diminish the necessity for operative treatment by direct incision as an initial method of choice ANTHONY F SAVA M D

Geist E S and Henry M O Dislocations and Simple Fractures of the Elbow Minnesota Med 1028 XI 500

The authors review 150 cases of fracture and ilis location of the elbon seen in private practice. The agus of the patients were as follows

| 1e | v | P | t | 1 AE | | p | ¢ | ı |
|------|----|----|----|-------|---|---|----|---|
| - 5 | 30 | 20 | 00 | 31-40 | 1 | 8 | 00 | |
| -10 | 31 | 20 | 30 | 41-50 | 9 | 6 | ∞ | |
| -15 | 20 | 13 | 33 | ςI-00 | 4 | 2 | 50 | |
| i-20 | 11 | 7 | 33 | 61 0 | 2 | 1 | 30 | |
| 30 | 30 | 0 | 00 | 41 90 | 1 | 0 | 60 | |
| | | | | | | | | |

In 110 of the cases the dislocation or fracture was due to a fall In 72 the mury was direct and in 48 indirect. In 23 cases the cause was an automobile

Seven of the cases were seen on the day injury was sustained 25 during the first week after the accident 36 during the second third or fourth weeks safter from one to two months 36 after from two months to one year to after from one sear to five sears a after from five to ten years 8 after from ten to twenty years and a after twenty

The types of fractures and dislocations were as follows

| D location | Csa | Pţ |
|--------------------------------------|-----|------|
| Backwa t | 9 | 6 0 |
| Ba kwar I with fra ture | 5 | 34 * |
| tuternal lateral External fateral | 2 | 1.4 |
| Di location of head of radius | | 2 0 |
| | 3 | 2 0 |
| I ractu es | | |

| I ractu es | | |
|-----------------------------|----|------|
| t viernal con lyle | 22 | 14 7 |
| Internal con ly le | 11 | -7 ; |
| l viernal er condyle | , | |
| Internal eps ondyle | á | 2 7 |
| Intercon Islant I fra lu c | | |
| Supracon iylar | 2 | 18 0 |
| Dia on Istar | 16 | 10 7 |
| ra ture of heat of ralus | 16 | 10 7 |
| ra ture of corony it; ro. c | 2 | |
| racture of ole ranon | 11 | - : |
| Explaine fracture | | 4.3 |

The treatment of each type is described. In the discussion of fractures of the oleration process in which the lateral fibrous expansions of the triceps are form emphysis is placed upon the importance of firm suturing of the fibrous expansions in apposition. Immediately after this sitting the srm should be fixed to at least 1,5 degrees and the ellow put at

rest in that position
The authors state that explosive fractures usually result from a direct injury such as the state, and of the elbow on the pix-ment in a fall from a height. All of the bones comprising the justification and pixers. The prognosis is always explosion and pixers are proposed to the prognosis and pixers are pixers. The prognosis is always explosion and pixers are pixers and pixers are proposed to the prognosis and pixers are pixers. The prognosis is always explosion and pixers are pixers and pixers are prognosis and pixers are pixers and pixers and pixers are pixers are pixers and pixers are pixers are pixers and pixers are pixers and pixers are pixers are pixers and pixers are pixers are pixers are pixers and pixers are pixers and pixers are pixers are pixers are pixers are pixers are pixers are pixers and pixers are pixers are

with early active and pa sive motion

ROBERT V FINNEY M D

Roth P B Fracture of the Spine of the Tibla J Bone & Joint S rg 1918 x 500

Roth reviews the literature on fracture of the spine of the tibus and reports five cases. He advises mmediate operation and emphasizes that division of the anterior born of the lateral meniscus allows the exact replacement of the fragment in the top of the tibus far more satisfactorily than any other procedure.

As a rule the patient suffering from a fracture of the spine of the tible gives a hatory of very severe injury followed by very rapid distention of the joint eavity of the knee. There is marked limitation of movement especially of extension and the knee is seemiflaved.

Roth applies a tourniquet and splits the quadriceps patella and legamentum patellas vertically. On complete discino of the knee the vertical incision allows excellent esposure. After the blood and blood clots have been swabbed from the point the anterior horn of the lateral menistus is divided and the bony fragment is replaced in its original position. The knee is then completely extended the wound closed and plaster applied. After immobilization for one month active movement and massage are beguin. PACL. COLONY M.D.

Caldwell G A A Portable Frame for the Suspen aton and Traction of Fractures of the Lower Extremity South W J 1928 xv 438

For the suspension and traction of fractures of the lower extremity Caldwell uses a modified Thomas splint and a Bradford frame with on springs instead of carnas and with an overhead frame of page at right angles from which the ritension device is suspended on a troller. Worsh ordinary Thomas apinit is used extension is ob-



Modified Thomas splint extension attachment and transfusion pin su prinded on portable frame

tained by the use of a turnbuckle and spnn, bil ance. When a Steinman pan is employed a special splint is used. The angle is adjustable and extension is obtained by turning the nuts of the steinside bars. This apparatus is portable who set up and simplifies the after care of the patient. W. P. Bucort M.D.

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Pearse II E Jr An Experimental Study of Arte riat Cotlateral Circulation tun 5 rg 1928 15xxvm 227

The increasing importance of surgers of the vascular asstern led the author to crits out experiments upon dogs to determine the rôle played by the main trunks and lateral branches of the blood vessels and by the saas vasorum following operative procedures. Pearse calls attention to the fact that much attention has been paid to the collateral channels developing after the liquid on the fact of the developing after the liquid on the fact of the total process of the collateral channels that the same that

of the organism to alterations in the circulatory bed In the authors is investigations to determine the necessity of the main arterial channel after was entirely exceed from the ingunial ligament to its termination in the proplicals of the ment to its termination in the proplicals of the left that it is a superior of the proplical of the left that array was solated little from its bed and divided between ligatures first at its point of emergence beneath the inguinal ligament. The lateral branches were dissected out and divided about 1 in lateral to the parent truth. The dissection was alteral to the parent truth. The dissection was the proposed arteries were also isolated drawn up as far as possible ligated and divided

In the six dogs upon which this experiment was performed there was no evidence of gangerie or functional disturbance. Two weeks after the oper-tion the rocentegorgam made after the unrection of Ilill so paque mass showed an amazin, increase in the vascular network of the limb deprived of its femoral attery. Histological study of muscle removed showed that the vascular increase was due entirely to dilatation of pre-existing vessels and not to the formation of new vessels. It was thus preduct that the main vascular trunk 1 not essential for viability and function of an extremit

In the experiments to determine the importance of lateril branches as collaterat channels after ligation of the main artery segments of the femoral artery were soluted by the use of sith ligatures. Some segments had no branches while others had from one to four in the segments with one or more lateral branches the blood pressure rose rapidly. Fourteen weeks after the operation the various segments were removed for examination is foslited segments showed complete atrophy and those with one branch were greatly reduced in size. In the segments showed to branches the main artery atrophed

between the ligatures and the branches while the part between the branches became smaller. It appeared that the arterial trunk became a part of a smaller artery which then consisted of a branch in which the current was re-seed the main artery between the branches and a branch in which the direction of dlow was unchanged. A segment with three or four branches atrophied between the ligature and the first branch and then resumed its normal caliber.

In the experiments to determine the role of the vasa vasorum in the formation of collateral channels after ligation it was found that if a 2 per cent aque ous solution of Prussian blue was injected into a branchless segment of artery the vasa vasorum would fill A a in segment of the carotid artery was used Within twenty four hours after the ligation there was formed an amazing anastomosis of the vasa vasorum with the small arteries in the surround tng tissues by means of which the vasa vasorum on the distal side of the ligature became filled with the dve Later the vasa vasorum destroyed at the time of ligation regenerated and passed over the ligature It was thus proved that the yasa vasorum aet as collateral circulatory channels after arterial ligation MORRIS A SLOCIAL M D

Girardier J de and Stricker P An Early Throm bosis of the Bifurcation of the Aorta The Importance of Surgical Exploration of the Bifurcation in Establishing the Differential Diagnoiss in Certain Types of Obliterative Arteritisand Determining the Choice of Treatment

and Determining the Choice of Treatment (A propos du me thrombo e précore du carrefora actique Importance de l'exploration chiurigeale de ce carrefour pour l'établissement d'un diagnostic differente daos certaines arientes oblièrements et le choix d'une thérapeutique) Rec de chir Par 1918 14u 97

Thrombotic or embolic obliteration of the aorta is seldom due to Buerger a disease and except in cases of aneurism seldom occurs before the fifty fifth year of age. The clinical picture varies with the location of the lesion the degree of vascular stenosis and the rapidity of development of the obstruction. The diagnosis is not difficult when the condition is estab lished suddenly Under such circumstances severe pain on one or both limbs coldness and blueness of the affected parts often associated with paræsthesia. and anaesthesia the absence of pulsation in the peripheral arteries in the part and the rapid establish ment of gaugrene (except in a few cases in vounger persons) with a fatal terminat on make a definite clinical picture. When the condition develops more slowly the diagnosis is difficult and may not be made for some time if at all although suggestive symp toms due to involvement of the periarterial sympa thetics (Lenche) might be expected. Several cases

The tr

The treatment of each type is described. In the diagrams of fractures of the electron process in which the lateral fibrous expansions of the triceps are nor emphasis: placed upon the importance of firm suturing of the fibrous expansions in apposition. Immidiately, after this suturing the arm should be fleved to at least 13 degrees and the elbow put at reat in thit position.

The authors state that explorine fractures usually result from a durest injury such as the striking of the elbow on the praced in a fall from a height. All of the bones comprising the joint are shittered into many pieces. The prognosis is always acrous. In 3 of the o class reveneed open surgery was attempted but the end results were not expressed to the control of the control of

POBLAT V ILESTON M D

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J Bone & Joint Su g 1928 x 500

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Caldnell G A A Portable Frame for the Suspen sion and Traction of Fractures of the Lower Fatremity 30 th M J 1028 xm 448

For the suspension and traction of fractures of the lower extremity Caldwell uses a modified Thomas splint and a Bradford frame with cosprings instead of canves and with an overbrad frame of pipe at right angles from which the rr tension device is suspended on a trolley. When as ordinary Thomas splint is used extension is ob-



Modified Thomas plint extensi n attachment and fransfision pin su pended on portabl frame

tained by the use of a turnbuckle and spring bal ance. When a Steinman pin is employed a special splut is used. The angle is adjustable and extension is obtained by turning the nuts of the sliding side bars. This apparatus is portable when set up and simplifies the after care of the pitient.

W Brond MD

size of a bean nodules the size of a pigeon's egg in the calf muscles and a torpid subungual suppuration. When the subungual suppuration is mistaken for an ingrowing toe nail and operated on the results

are disastrous
In a well developed case of gangrene of the great
toe the pulsation of the dors'uls pedis and the posteror tibal arteries is reduced or abolished and the
sphygmomanometer usually reveals normal pulsa
tions no higher than Hunters canal When the
limb is elevated it becomes incharged and when it is
allowed to hang dependent it becomes bright red

(Buerger's ervithromela)

The diagnosis of thrombo angutis obliterans is difficult. Syphilis and diabetes must be eliminated Microscopic examination of the arteries is of no value unless it is done in the early stages of the disease. Later the picture is always the same.

The author concludes that in most of be cases the condition was Burgers is disses. Ile finds the ong nal description of Burgers exact in every detail. The condition begins as an acute thrombo anguits. The wall of the vessel becomes infiltrated by for cliencyctes and giant cells. The lumen is quickly obsterated by a thrombos and as the saute stage passes the vessel is converted into a fibrous cord. The directive controlly with scatter exact the control of the control

to occur also in other races
Luvinle arterioscletosis endarteritis obliterans
of old texts is less frequent. It licks the acute stage
of Buerger's disease and is accompanied by afteroma
of the abdominal aorta. Its etiology is as ob cure as

that of senule arteriosclerosis
The progno so Buergers disease is extremely de
ceiving and variable here may be remissions of
ceiving and variable here may be remissions of
months or vera: In some cases the progress of the
condition is more rapid but occurs by steps so that in
cases of gringeries some surgeons have been led to ad
vie high amputation from the beginning. The
author is in flavor of amputating as economically as

Various medical treatments have been advocated. The viscosity of the blood may be re luced by in travenous injections of saline solution or the administration of 8 to in three of saline solution by diodenal tube. The use of intravenous injections of saline solution during a period of four vear at the Mt. Simai Hospital New York considerably reduced the number of amputations.

Ambard and Vaquez advise injections of insulin to combat the suppose I hypersecretion of the supra

renals Sodium mitrite and acetyl choline have been used because of the vasodilation produced. Hyper tome saline solution sodium mitrate and acetyl choline appear to be of most value.

Of the physical agents diathermy seems the most

Surgical measures such as ligation of the femoral vein ligation of the external iliac vein and anasto mosts of the vein and artery have been used but the results of most of them have been poor or transitory

Lewis proposed ligation of the femoral artery im mediately below the deep femoral to prepare the col laterals against thrombosis of the popliteal artery. In four cases in which this was done the immediate re

sults were good

None of these operations gives permanent relief
The same may be said of periarterial sympathectomy
but of all surgical procedures this is best as it com
bats the arterial spasm often greatly relieves the
pair and is simple and harmless

Resection of the lumbar sympathetic is a difficult dangerous and shocking operation which has no ad vantage over periarterial sympathectomy. Super

renalectomy. has little or nothing to recommend it. The author defends the conservative treatment of gangrene. He determines the level of imputation by the Moschcowitz test. The leg is elevated and an Esmarch band applied for ten minutes. The height of the amputation is determined by the extent of the subsequent active the nexum.

MEERT F DEGROAT MD

BLOOD TRANSFUSION

Matthews II B and Mazzola V P Observations on the Biochemical Changes in the Blood Following Radium Therapy in J Ob t & Gyn c 1018 VI 07

The occurrence of nausea and comiting and other signs of discomfort following radium treatment has been ascribed to into rication disturbances of metabolism acidosis inhalation enzyme changes and nephritis Matthews and Mazzola studied a series of 100 cases with special reference to biochemical bloo i changes after radium irradiation. In at per cent there was a mil I reaction which might have been attributed in part at least to the pre of erative atro pine or morphise or the an isthetic. Following radium treatment of both benign and malignant tumors the blood area showed an increase but no definite rela tionship could be established between this increase and the reaction The carbon dioxide combining power of the blood was not affected by radium irra diation and no evidence of renal impairment could be adduced E L CORNELL M D

are cited from the literature in which the condition was discovered only at autopsy or the patient survived for a number of months or years

The authors report a case from the charact I enche in which despite careful observation the true nature of the condition was long unsuspected. The patient a Spanish planter forth five vears of age with a history of syphilis in couth had suffered for five vears from inferrentient classification and pain over both kidney regions. The pain in the legs has much more severe in the right legs has the first and was of many the control of the co

Examinition revealed mirked sensous shlatation of the legs, or jane; at the feet reduces of the toes and re lema of the right fourth toe. In the horizontal position the externition between very pale With the exception of a slight pull atom of the left lemonal arter, no writeral pulse could be left removal arter, no writeral pulse could be felt after the limit shad been immersed in warm water. The blood and urmans findings were normal.

Treatment for Buerger a di ease finandin normal asti solution and hypertone salt solution initia venously failed to give rebel. Because of the progressive prim in the loss an i-la-lo so some cetter on account of the instituce of the patient. Lend per undertook, revision of the femeral sevech and reduction with the pression of the femeral sevech and endertook in revision of the femeral sevech and endertook in the restriction of the femeral seven and end when the return sentrated but no polishion was nated and the til use about the xic of side not letel. The ordificance about some my sended some my se

in the left leg but none in the right The slight benefit ilerived from the operation le l Leriche to remove the left suprateral gland which showed desinite hi tological evidence of hisperac tivits I ollowing this operation however the print and di coloration were more intense and within forty eight hours the condition became alatming The patient was very much agitate I the pains failed to respond even to morrhine the crane is was marked the pulse soft and rapid and the utine diminished in quantity. I cricke thought of aortic thrombo : but coul | not differentiate it from acute hypotension with capillary stass Accor lingly oualism and insulin were adminitered and the limbs were ma saged. Slight improvement resulted Adren ha was then given This produce I a condition resembling shock (lucose heat stimulants and massage were of only transitive benefit and the nations died Autopsy reveale I an ol I obliteration of the temorals and a recent clot in the lower aorta

evtending down to the bifurcation. Letriche beferevs, flat in this case the removal of the suprarenal glund was absoluted, ontra undetated. While this procedure is often of value in Buerger 8 of the trish bifurcation of the suprarenal plates of the trish bifurcation of the suprarenal plates of the discretization of the causes of arrenal obliterations in therefore of importance. As in the case reporter the age of the patient may not eveluate Buerger 8.

theses: Trais of the viscosity of the blood may give some ether at appears probable that in through anguits obliterans there is an increase in the vicosity. Heat, has noted besing the usual placed and instrumental findings a marked palpable on largement of the epigratine stort associated with girdle points. Lenche believes that in doubtful case resolution of the nort as insufficially consideration of the nort as insufficially

MICHAEL L MIASON M.D.

l'elbevici R Remarks on the Diagnosis and Treatment of Gangrene Due to Obliteraling Arteritis in the Adult (Remarques sur le diagnosis et le trait ment des gangré es par arténtes oblit raotes de l'adulte) J de ch 1918 xiii 354 Serious atlention has been paid to presente gau

green and obliterating attentis by French physician only in the 1st few years. In the majn articles appearing in the recent literature are found into position of view. Some of those writing on the subject seem obliterating thrombo anguits a new morbid entity due to a specific organ memorant production in the object seem of the product of the product

Leibovici reports the results of a study of sixteen

fie states that gangrine of the lawer extremities is far from ruce an I that the cases ob erved in the pretangren was stage, will become still less rare as phystrum learn to recognize the early stages of arteral obliteration.

Occ condit the gangtene appears suitlents for several days thire are violent pain usually in for several toe. As in sende gangrene, the prin is not severe it night. In the course of a few days the toe lecomes, vanotic and cold and soon thereafter

mummification appears
I requently the gangrene follows months or years
of cramps in the plantar surface of the foot and slug

gish trophic ulkers of the toes In all cases the gangrene develops very sluggishly an I for weeks a tinect themservation appears. In the meantime, the pain increases in severity. The patient i unable to walk and at night suffers violent parroxisms.

Among the pro-fromal symptoms intermitted claude attorn year con tant. As the sign is variable to the same patient if I e Henry due in large part to arterial spa m.

Cutaneous ir ulaters phenomena are usadis striking. Thes ma consist in an intense hypertima when the patient is upright (the Vaques sign) of pal br and coldine of the extramity after he his walked a short distance.

Sometimes the arterial obliteration is latent and the diese is manifested by changes in the super final veins a segmentary acute hiromolophichus which heal with obliteration of the vessel. Some times a phiegmanic alba dolens re ults from involvement of both deep and superficial veni

Other phenomena are painful purpure spots on the dorsum of the foot subcutaneous nodules the to the patient Braun's rule of awaiting the in duction of anischesia helore making the incision is ignored. When the tissues are mused, the greater part of the fluid escapes, but anisthesia is already present. Without further delay, the author then continues alternately using the scalpel and the

syringe. For an operation on the kidney, the solution is injected subcutaneously along the entire length of the skin wheal until a raised inflictation results, the needle being held vertically at right angles to the skin. Then without delay the incision is made down to the aponeurosis. The injection of the muscless is also done vertically. With this technique it is possible to inject deeply a sufficient quantity of solution to saturate the muscles until they are markedly snollen. After the injection the incision is made without delay.

The next step in the operative technique is the upsing backward of the isars treasly propria which is now apposed. Then the interfascial space is in jected through the posterior fold of the renal fascia with the use of a 10 cm needle. The needle is in serted progressively higher toward the diaphragm until it reaches the superior pole of the kidney. By this steiningue the entire space between the interior and posterior fascial sheets is filled with solution. The lower pole in teated in the same manner a c-several syringefuls of solution are injected through the posterior layer of the aponeurous in the lower

part of the space. The factor area is never opened until it is certain that the lidney as well as its capsule are floating in the solution. When the renal capsule is incised the excess of solution escapes into the wound After the excess of solution and the blood have been sponged out the kidney is dissected from its capsule.

This stage of the operation is of the greatest im portance in determining the further success of the anisathesia. The proper execution of the method assures perfect anisathesia in a large percentage of cases. If this stage of the technique is not carefully timed (too rapid opening of the posterior sheet) all previous work will have been wasted and the

anasthesia will be poor

If the patient complains of severe pain during the
dissection of the fatty capsule or the mobilization
of the kidney into the incision an injection of the
anasthetic is made through the fatty capsule to the
hius

The entire technique usually requires from 300 to 600 cm of ½ per cent novocan containing 4 drops of adrenalin per 100 cm. The instruments used are a 1 ccm syringe with the usual need les and a 10 cm syringe with needles 50 and 100 mm long

During the last three years the author has operated upon sity one patients with the technique described. The types of operation were as follows (1) fifteen achiroperus with simultaneous appendentum); of eight peldomos for renal calculus (3) seventeen nephretomies for neoplasms pyelonephrosis or infectious nephrins and (4) one capsular nephroperv with associated rectoeoccygoperv for prolapse of the rectum

There was one death in this group of cases that of a woman sixty years of age with neglected pyonephrosis In this case the inferior vena cava was injured

Light ether anxisthesia (50 per cent ether) was necessar; once in the removal of a kidney neoplasm a large hypernephorma in the case of a stout power ful male. As a rule there is no postoperative in contration.

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Itarris R I and Stoddart W O A Stemple Appa ratus for the Continuous Introvenous Admin Istration of Physiological Salt Solution Cana dian M tis J 1928 xix 316

In the technique for the intravenous administra tion of physiological salt solution described by the authors more than the usual care for asepsis is necessary as the apparatus may be in use for several days The receptacle for the flur i is kept covered with a gauze and cotton filter When it is empty it is replaced by a fille I container

A small vein on the dorsum of the han I or foot is exposed under local anasthesia anil a No 17 gauge gol I needle inserted and tied in with catgut. The wound and needle are covered with sterile gauze made fast with adhesive tape. The apparatus is arranged so that the solution drips through a glass cansule as in the Murphy drip at the rate of 20 drops to the cubic centimeter

Glucose solutions are not used by this method as they give rise to thrombosis of the vein Clotting in the needle causes very little trouble in the small veins. Not more than 35 eem of fluid should be administered per pound of weight an twenty four hours

The method described was devised to meet the needs of certain surgical conditions such as the toxemia of intestinal obstruction and burns but has been found of value in many medical conditions

GEOR E 1 CHILIT WID

ANÆSTRESIA

Iladfield C F Shipway F E Daty A Thomas L K and Others Discussion on Late Ether Convulsions Pr c Roy So Med Lond 1928 xx1 1600

Happieto cites a number of cases in which con vulsive attacks occurred during ether anasthesia Some of the patients died either on the table or subsequently in the ward. He states that during the convul ions the action of the cardiac and respiratory centers dies not seem to be affected primarily. If the auxisthetic is discontinued the movements may diminish and recovery may follow A number of samples of the ether used in the cases cited were analyzed in an attempt to determine the cause but nothing definite was found. Hadfield reaches the following conclusions

1 Some persons po sess an unexplained tendency to develop convul ions under ether anasthesia 2 In most if not all such persons one or more accessory factors may be necessary for the development of these convulsions

3. Such factors may include (a) heat (b) servs or other toxn mia (c) impurities in the ether (d) vout h 4 We know of no treatment except the with

drawal of the other The administration of oxygen possibly combined with earbon dioxide may be of value Chloroform should be avoided

S We cannot at present explain the absence of record of such cases previous to about 1916

Data cited the ease of a patient thirty years of age who was subjected to partial gastrectomy for ulce Lther vaporized with oxygen was given through a Shipway inhiler Convulsions began after forty minutes but were immediately controlled by the administration of carbon dioxide in oxigen Ex amination of the ether in the inhaler showed the presence of acetaldeby de and petoxides

FROM 45 states that in his opinion the symptoms are the result of over ethenzation

MENNELL suggests that over ony genutation or the formation of impurities in the ether from the used oxygen may be a contributory cause JOHN II GARLOCK MD

My Method of Infiltration Wischnewsky A W Anaesthesia for Aldney Surgery | Neine Methad der Infiltration antesthesie bei \ erruop ? tionen) Ze trafbl f Chir 1928 ht 9

The author states that practicality should be the first coosideration in kidney surgery under anas thesis induced by the infiltration method As early results nere discouraging a variety of methods of block anasthesia (Lawen Kappis Braun Fin sterer) were suggested but when the results obtained with block anasthesia were reported a definite inad equacy in the technique was e ident since in some cases the block an esthesia was supplemented with ether and in others with infiltration anasthesia and in some cases death re-ulted

As an advocate of the infiltration method the author has previously reported modifications of the technique which have been found of value. In this article he di cusses only the induction of anasthesia for kidney surgery In 1923 he made his first report to the Congress of Russian brologists in Leningrad Even at that time he was able to report a rather large senes of cases in which infiltration anasthesia was u ed successfully. He states that his earlief work was based upon intuition but that he has row developed an exact and simple technique based upon debute rules

Major surgery with infiltration technique car by executed successfully only if the surgeon is not limited in the amount of solution that can be used By injecting the various layers separately the author makes a stretched infiltrate with a quantity of solution which is effective without being harmful dose Distance and time are subject to great varia tion in the treatment of different lesions. In gen eral the shorter the distance the greater the econ omy of radiation

The 4 gm pack used by the author has a lead wall 10 cm in thickness immediately surrounding the radium. The radium is distributed over a circle 7 5 cm in diameter. The skin area is limited by the use of a beam 10 cm in diameter. This circular cross section of the beam seems suitable for many deep tumors and yet is not too large to use in cross firing Theoretically a square or rectangular cross section beam would be better for widespread irradia tion but practically it is not

The radium in the pack is placed in a recess 6 cm deep the minimal distance from the skin being 6 cm The time required to deliver the erythema dose at 6 cm with this 4 gm pack is three hours about the average length of treatment to the average patient

The radium is distributed over a circular surface area of 44 sq cm with a diameter of 75 cm The radium i distributed in forty tubes each of which contains 100 mgm of sulphate and has a wall thick ness of o as mm of platinum except the cap which is o s mm thick. More tubes per area are placed about the peripher, than centrall. The tubes are held upright in a bakelite disk. The sadium is mounted in a revolving lead cylinder 13 cm in diam eter which can be revolved inside a larger outside lead cylinder in such a way that in one position the distance from the radium to the skin is 6 cm and in another is 10 cm. Also a position can be employed which gives complete protection during adjustments and preparation of the patient. As the external Opening of the recess containing the radium is 10 cm in diameter the typer of the 6 cm recess is greater than that of the 10-cm recess. The whole pack weighing 310 lb is housed in brass and mounted on a steel frame with an electrically operated carriage which permits free movement of the heavy apparatus and adjustment as desired. Safety devices are at

tached Two treatment rooms are maintained in one of which a patient is prepared while in the other a patient is being treated. After a treatment has been completed the pack is transferred to the other room through an aperture in the wall. Three min

utes are required for the transfer The article contains diagrams of the treatment rooms showing the location of lead insets to absorb secondary radiation. It contains also reproductions of films showing exposure to the pack with the use of the 6 and 10 cm recesses respectively at a distance of 10 cm in air and with a paraffin phantom to illustrate scattered radiation such as occurs in the

human hody The minimal screen used is 0.35 mm of platinum and 1 5 mm of brass This filter intercepts the beta

rays and some of the soft gamma rays

A diagram shows the radiations in a water phan tom as determined by ionization measurement. In a chart are given the threshold erythema doses in mil ligram hours at various distances and the relative depth doses at different depths. These determina tions were made in a water phantom by means of a small ionization chamber

The author states that whenever the geometrical and cylindric conditions of the case permit at is more economical to deliver the 10-cm denth dosage by three crossfire irradiations than by one exposure However the radiations reaching the ro cm denth are not identical by the two methods

In practice a cross section tracing is made of the area to be treated and various arrangements are tested by means of the charts to determine the proper distances and the number of fields. The combined doses received by different parts of the tumor are recorded

In conclusion Failla says that the described pack is perhaps unique in the large thickness of protective lead the device for turning off the radiations and the device for adjusting the heavy apparatus

A JAME LANKIN MID

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Packard C A Comparison of the Quantitative Biological Effects of Camma und Y Rays J Cancer Research 1928 xm 60

The purpose of the experiment reported in this article was to compare the lethal effect of grimming system a measured quantity of radium emanation with that produced by \ray doses of \text{Liones} intensity.

The eggs of the common fruit fit or drosophils had been previously use I but the author as a strainfard of measurement for the intensity of the action of the X-ray. The proportion of eggs is lifeld depends upon the intensity of the X-ray beam and the length of exporute the wave length is not in factor. When the intensity is lowered the ideath rate is proportion actal less reguldes of the wave length is not action. The intensity of the X-ray indoes can be estimated with example of the X-ray indoes can be estimated with the intensity of the X-ray indoes on the exposure the support of the two the intensity and the duration of the exposure the support of X-ray machine.

When a curve is plotted showing the percentage of a hatch after a certain length of exposure to both gammy (1) a from radium emanation and the Nray the effect of radium and the Nray seems to be quite chosely prailled. We more than 30 000 eggs very useful in the experiment womas letable degree of accuracy 1, as attained especially when more than

30 per cent of the eggs were hatche | Certun critici ms of the method of measuring

radiation intensity brought forward by Zuppinger are answered

The curves obtained by expressing tumor cells to these two redictions all ocorresponded quite closely. It was assumed in those experiments that the ware length is not a determining factor in the biological effect produced that is that long waves are not biologically more active than short ones.

This assumption though not set fully proved is held as resonable since bool goad effect and ionization are piruled within such a wife range of wave length that they are probably parallel within the short lengths not set tested.

RADIUM

Failla G Design of a Well Protected Radium
Pack Am J R c tgenol 1928 1 8

The author applies the term pack to applicators from all points of which the skin receives radiation and not to beams of rays hinted by lead screens. The relative djeth dose delivered by a pick may be expressed in percentage of the skin dose. The

relative depth dose at any given point increase with the filtration the area of the pack and the ditance between the radio-active source and the skin. Other lactors being equal the relative depth dose decreases with the identh

Only tumors having a radiosensitivity greater than that of the skin can be treated with packs unless

crossfiring is done

Theoretically at should be possible to deher to deep tumors the dose necessary by varyon the fix tors of filtration area of source and distance Per tically the radio ensitivity of tumors is not known and the factors of filtration area and distance my be so great that adequate irradiation is impossible with the amount of radium a validable.

Ordinarily a mm of brass or its equivalent is consisted sufficient filtration of realest filtration or reases the time of exposure unnecessarily. It is not agreed that it as mm of lead or it to mm of pullumm admit relation having a selective action of eancer. Some substance absorbing the second rays from the brass should be interposed between the filter and the significant control or the control of the con

In general the larger the source area the greate the relative depth ilo e that is delivered that s when the source area is large the relative depth dorage does not decrease so rapidly as when the

source area is smaller
The distribution of the radium units over the
source area i such that the unit per area increa is
from the center peripherally. In this way it is posible to obtain a more even di tribution of the tails
toop in planes parillel with the plane of the applicator.

The most important factor to be considered is the harnee in general the relative depth do a necesses with the distance. The increase in the relative depth dose i most rapid for a point source and becomes less marked as the radiating surface in

The fifteness as fixed at a mm of brass but the save cares and the datane are determined by the save care and the datane are determined by the save care and the datane are determined by the save care and the dataness of 15 cm over 15 cm over

In general the distances so adjusted that the skin dose may be administered by the amount of radium variable in the time allotted. To hear relative depth dose with a full skin dose so if greater value than a higher relative depth dose with a fraction of a skin.

first was the case of a woman who entered the host pull with eclampsia and died a few hours later Meroscopic examination showed mycelai filaments in the kindreys almost exclusively in the somewhat thickned walls of the vessels. There was no the case of the case of the case of the case of the other organ. This was a saprophytic mycous that had been perfectly tolerated and may have heen present for a long time.

The second case was that of a woman who was delivered normalls but was re admitted to the hos pital ten days later in a condition of coma and canosis with lapso of congestion of the lungs and a temperature of 407 degrees C and died a few hours later. Myethal filaments were found at the blood vessels of the uterus but had not caused any inflammatory reaction in that ori, an In the eapil laines of the lungs there was an intense probleration of myedis. The fungh had apparently not caused unflammation of the lungs there was an intense probleration of myedis. The fungh had apparently not caused unflammation of the alweoli but the circulatory disturbance produced by them had led to the secute existence of the lung which was the cause of the Patient's death.

Three other cases are cited birefly. In the first branched mycelial filaments were found in an in flamed appendix in the second they were found in a large tumor of the thigh which had been dug nosed as a sarcoma and in the third they were found in an osteosarcoma of the lower third of the femur.

The author believes that the latent form represented by the first case is common. He states that in general these my coses are only slightly virulent

Various forms of the fung are found—long and short mycelia and spores The lessons they cause range from inflammation to chronic progressive in flammatory new growths

AUDREY G MORGAN MD

HOSPITALS MEDICAL EDUCATION

AND HISTORY

Parker G The Early Development of Hospitals (Before 1348) Brit J Sirg 1928 xvi 39

Parker traces the early development of hospitals to the time of the Black Death. The earliest hospitals were founded in the sixth century see in places far apart both in the West and the East Among the early founders were such famous men as Kasser Karl the Great Haroun Al Raschid and the English king Athelstan.

Buddhist hospitals sprang up after the death of Gautama in 543 BC. In the Buddhist period of about 600 AD ahle surgeons were practicing laparotomy intestinal suture and rhinoplasty and numerous hospitals were built by victorious rulers monasteries and individuals.

Of the early Zoroastrian hospitals little is known Their establishment began at about 500 AD and in the main they resembled the Buddhist institu

tions

In the Western World hospitals had two sources the Æsculspain out! and a provision for sick citizens made by the Greeks who were intent on forming a model city state and had a large hody of able medical men at their command. The Temples of Asklepios established at about 500 BC claimed many cures and provided haths massage bleeding operations and drugs. Fees were charged to the well to do. In addition to these temples there were numerous other healing shinnes great numbers of private secular doctors and also even as early as 500 BC. a highly paid and well trained public medical service.

In the Roman Empire there were great and well equipped hospitals with complete medical staffs burning the time of Theorem and the staff of the complete medical staffs and the complete medical staffs and the complete medical staffs and the social troubles of the Roman world Lettween to and go A D many bospitals were abandoned Alter the advent of Christianity, a remarkable expansion of the hospital system took place in the Roman world. The bishops hospitals became very important multitary hospitals under Byzantine rulers were improved and well equipped and many civil hospitals sere founded

In the Moslem world hospitals and medicine made extraordinary progress because of the advanced civilization and wealth of the early Caliphs The inspiration leading to the advance of medicine and the establishment of hospitals came from two

the great school of Gondishapor of Greek Persian and Indian origin

After the year 1100 European hospitals began to increase in number. Numerous foundations were established by individuals and by hishops canons and monastic orders. Soon however the practice of medicane by churchmen was greatly reduced as of medicane by churchmen was greatly reduced as the monastic with exclassivation distributions and monastic with exclassivation distributions and the statement of the proposition of the purpose of the purpose of the purpose of the proposition of the purpose of the p

sources (1) the neighboring Byzantines and (2)

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Sarcoma within Benign Fibro Adenoma and Cancer Research 1928 28 27

Mixtures of different tumors such as sarroma and carcinoma for example have been transplanted into mice by different investigators. As a rule the neo plasms grew together but each strain could be senarated by growing it in animals ausceptible to only one type of tumor When tumors varying in via bility and proliferative capacity were mixed and transplanted the most energetic type overgrew the others in a few generations The result was not an amalgamation of tumor strains into a new type. But rather a mixture of two types of tumors which retained their morphological characteristics. The same phenomenon has been observed in the metas tasis of complex tumors occurring in men such as those of the testiele. The highly pecualized tessues rarely appear in the secondary growth Instead sarcomatous chondromatous or carcinomatous ele

ments dominate in the metastases. In the authors study neophyrans of a highly majoran study neophyrans of a highly majoran study recopyrans of the beniga tumors abovely growing beniga tumor. The beniga tumors abovely growing beniga tumor. The beniga tumors the study of the stud

tumors
When carcinoma cells from the very active Flex
ner rat carcinoma were injected into the depths of
the beingal tumor they grew in the depths without
visibly affecting the health of the animal or apprecably modifying the development of the beinga tutumor of the companion of the control
textics of either the beinga tumor or the carcinoma
ren indust they were growing in close proyumity.

The carctions cells seemed to remain in the center of the being it into T here growth was frequently surrounded by dense connective tissue and halms tation. In one instance cyst formation developed Probably the poor vascularization of the beings in more was responsible for the slow growth of the injected carctionia. In one experiment in which the needle was accidentally forced beyond the tumor the carcinoma grew beyond the poles of the beings tumor and metastasized throughout the body.

When a spindle cell surcoma was injected into this being a tumor the surcoma infiltrated the being a tu mor and extended outside and around it and liter found a path through the abdominal and chest will into the mesentery and mediastinum

The carelnomata continued to remain encysted in the center of the hensen tumor while the sarcomata seemed to be able to grow along the track of the needle snfiltrating the fibrous tissue and ultimately to escape into the tissues of the host. The benigh tumor seemed to play a wholly neutral part When the carcinoma cells which had been implinted into the benign tumor were later transplanted into an other animal there was no change in their biology and they grew as rapidly as control tumors which bad not been imprisoned in the connective tissues of a benign neoplasm. This observation is cited as further evidence against the theory that an organia is responsible for the growth of malignant tumors since it might he expected that if an organism were present at would stimulate the benign tumor to be

come malignant. The author auggests that the conditions this art ficially produced resemble the climical curvisions after relations in which tissue of the even or or other relations in which tissue of the even or or other productions are relative to the contract of the event of the even of the event of the event of the event of the event of the even of the event of the event of the event of the event of the even of the event of the event of the event of the event of the even of the event of the event of the event of the event of the even of the event of the event of the event of the event of the even of the event of the event of the event of the event of the even of the event of the event of the event of the event of the even of the event of the event of the event of the event of the even of the event of the event of the event of the event of the even of the event of the event of the event of the event of the even of the event of the event of the event of the event of the even of the event of the event of the event of the event of the even of the event of the even of

be permitted.

Clinical cases also show a difference between the
behavior of carcinoma cells and narcomata minia
to that noted in this experiment manely the difficulty
of influencing the spindle cell types of sarcoma by
radiation as compared with carcinoma despite of
treme scarring of the Lissues about the sarcoma

HARRY C SALIZATELY VI D

GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

Durante G Ilistological Forms of Internal Hu man Mycoses (Form 5 h stologiques des mycoses aternes huma nes) Gynecolog 1928 xxvii 321

With the exception of aspergillosi and actino mycoust diseases due to fungi were for a long time considered rare in man but it has been found that mycotic infection in the human being ranges from absolute suprophytism to the most acute septi-

The author has recently seen two cases in pres nast women that represented these extremes. The

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Supplementary to

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INTERNATIONAL ABSTRACT OF SURGERY

TERRUARY 1929

LANDMARKS IN SURGICAL PROGRESS

BY IRVING S CUTTER MD ScD CHICAGO Dean Northweslern U 1 e s ty Medical School

NEPHRECTOWN - ERASTUS B WOLCOTT

THE ease and comparative safety of the present day operations of nephrotomy and nephrectomy but feebly mir for the position of surgery of the kidney a century ago Samuel Cooper' in his Dictionary of Practical Surgery2 defines nephrotomy stone out of the kidney 3 proteeding which perhaps has never been actually put into practice Numerous instances are recorded of the extraction of kidney stones from abscesses about the kidney pointing on the external surface of the body and Cooper notes with regard to cutting into the that the deep situation

of this viscus will always be a strong objection to the practice In the Philosophical Trans actions for 1606 Charles Bernard' details the case of a Mr Hobson English consul at Venice successfully operated upon for a kidnes stone by Marchettis' of Ladua in a two-stage opera tion with final incision into the Lidney and the extraction of several stones Garrison quotes Neuburger' to the effect that Guiseppe Zam beccare a pupil of Francesco Redi (1626-1607)



FESTINE W LCOTT

performed experimental nephrec tomies on dogs. In a paper be fore the Medico-Chirurgical Society of London Thomas Smith advocated an incision reaching the pelvis of the kidney for the purpose of removing renal cal culi Smith outlined a technique which does not differ essentially from that of today His paper was purely theoretical however masmuch as he had not per formed the operation which he described

The first nephrectomy on a human being was that performed by Erastus B Wolcott of Vil wankee Wisconsin on June 4

1861 The report of the operation was written by Dr Charles L Stoddard of East Troy Wisconsin and published in The Phil adelphia Medical and Surgical Reporter The case occurred in the practice of Dr Stoddard in the ricinity of Fast Frov and Dr Wolcott the leading surgeon of the area was called in con sultation

Dr Charles L Stoddard was born in Buffalo Yen York in 1836 He was orphaned at the early age of twelve years his father and mother dving of Assatic Cholera He attended the Pennsylvania hab tempras M of Ting Ral Cal lo Tansactio

Case 1 km; phaload Disease 1 th Kal y R mo al, to 86 -69 V I 11 26 es a this so mill Charl II i bland filler k a so of le Charl L toolland a so of le Charl L toolland a postern model by lee 6 ad my of Med in

103

Case of Encephaloid Disease of the Kidney Removal, &c

By Chantes L Bronnan M D

On the 4th of Juna last, I was invited to seems Dr. E. B. Wolcott of Milwankie in the removal of a tumor from the abdomen of Me. J. aged 58 years On examination we found that the p tient was a tall anamic looking man of a peculiar cast of countens ce and cate e of of serious organic disease. He stated that he was of healthy parentage, e d had good health until the appearance of the t moreix years before that time. The physician in attendance etated that f om the first appearance of the disease some arriation of the pri nev organs had existed but what the deposits were we were unable to learn as no reliable chame cal or microscopical syldence was presented It was probable however from the stateme to made that an alhum: oue deposit was the orin cinal a e

We found the tumor to he large fill g the right bypochoudr so region and pre upon the right bypochoudr so region and pre upon the subdomined parenties forms d about two naches from their natural laws! On aplantion at was a ulant that it was semi-solid have g a ped cular attachment apparently to one of the sulce of the 1 er with a more extensive attachment to the postaror parents.

Ha g no reliable data to form a d agnose other than the prese t state after duly considering the patie to anxiety and his depri ation of general health we co cluded that an operation offered the o ly chance of

ultimate recovery at the same time we stated to the patient and his friends that the operation was a serious one in his state of health Our conclusion was that we had here a crat c tumor of the liver pressi gon the kidney and producing arritation sufficient to account for the albuminons deposit After the admin stration of chtoroform Dr Wolcott proceeded to the removal of the tumor by making a income disconsily across it down to the pento cum which we fou d to he very much thickened en! elightly attached to it. He next med: on i c a on t to the tumor which we found to he an encepheloid mess. He then proceeded to free et from its extenst e postsriprettachments, efter which he found that the surerior etiathment was a very dense cord I ke structure about so inch in eircimference, and apparently proceeding from the posterior part of its liver Carefully trong the pedicle he se ered this con nect on with the knife and after removi g forei n matter cerefully from the abdumen brought the edges of the wound together with common autures and adhesiva strips which was the only dressing used. After the p tiest was f ee from the effects of chloroform mur phia and campho were administered to suffi cent qua tities to quiet arritation a d produes eleep

The tumor we shed about two and a half you do a don total g st freely we found on doubted a idence of its being a kidney from a amail po tron of its upper port on which had not degenerated showing the tubules and a port no fit lep it so of that

The patient lived fiftee days after the operato and ded appa nily from exhausto caused by the geat amo at of supportation which ecessarily followed

Facsimile of Dr. Stoddard's original report of Dr. Wolcott's case

Medical College in Philadelphia from which he graduated with the degree of M D in 1960 sub sequent to which he served a residency in the Philadelphia Ceneral Hospital (Blockley) He first located at Frie Pennsyl vania removing to Wisconsin in 1865 where he served successive ly as physician and surgeon the communities of East Troy White water and LaCrosse Later in life he removed to San Bernard ino California where his death occurred in 1001

Dr Erastus B Wolcott² was born October 18 1804 in Benton Vates County New York His

parents were from Litchfield Connecticut He commenced the study of medicine when about eighteen years of age under the direction of Dr Joshua Lee a prominent practitioner of central New York Subsequent to a period of practice chiefly in South Carolina he entered (1830) the College of Physicians and Surgeons of the Western District of New York' at Fairfield receiving his M D degree in 1833 On January 1 1836 he was appointed assistant surgeon in the United States Army and not long thereafter was ordered to the I ost at Mackinaw where he married the daughter of Michael Dousman a fur trader Fort Macke nac built by the French in 1712 came into pos ussion of the United States by the Treaty of Paris in 1783 was captured by the British in 181 and restored to the United States by the Treaty of Chent in 1815 From 1820 to 1840 it was one of the principal stations of the American Fur Com pany. The post was evacuated by the United States troops on June 10 1837 though subsequently re occupied Dr Wolcott resigned his arms commission spril 15 1830 and settled in Milwaukee Wisconsin where he practiced his profession until his death January 5 1880 His

P 31 in M deal C ll g ong ic 1 Signas th M beal Physician with 1 31 in C ll g Geryab by D Georg M C ll 1 5 time dwitch D 1 I physic Coll M die nd's rive y lt bend 150 cc t l h coll g l t t l h of child h l b is fram; the few the side l To the control of the it of th arm ebp ect m t



CHARLES I. STODDARD

first wife died in 1860 and in 1860 he married Laura I Ross M D one of the early women graduates in medicine

Dr Wolcott was a prominent member of the early Territorial and State Medical Societies. He was also one of the members of the Milwaukee County Med ical Society at the time of its organization in 1846 and was present when it reorganized in 1870 after a long interval of in action. He was among the ong mators of the first local soci ety the Milwaukee City Medical Association in 1844 At the time

of his advent in Milwaukee Dr Wolcott brought a good reputation as a sur geon which deservedly increased with the passing years. He possessed keenness and quickness of perception was a neat and destrous operator prompt in action fertile in expedient untiring in care and attention Dr Wolcott was not only actively engaged in his profession, but held many offices of trust and honor in the city and state He was made Surgeon General of the State militia in 184 and Major General of the first division of Wisconsin militia in 1846 a member of the Board of Recents of the State University in 1850 a member of the Board of Trustees of the North western Mutual Life Insurance Company (or ganized in 1857) in 1858 and soon after became its first consulting medical director. He was appointed one of the Trustees of the State Insano Hospital in 1860 and a member of the Board of Managers of the National Homes for Disabled Soldiers in 1866 which position he retained until his death. Immediately after the attack on Fort. Sumter he was appointed Surgeon General of the State and traveled much to further the interests of the troops visiting them on various battlefields In 1867 he was appointed one of the Representatives of Wisconsin at the International Exposition in Paris

We must however regard the work of Gustas Simon (1824-18,6) of Heidelberg as laving the scientific foundation for the operation of ne phrectom. Adistressing case of urmary fistula re sulting from ovariotomy having come under his care and all resources having failed to relieve the nationt the advisability of extirpating the kidney suggested itself Before however such an opera tion could be resorted to it was neces ary to ascertain whether or not it was consistent with hie to suddenly withdraw the function of one kidney and throw the entire labor upon the other Pathological records afforded many instances in which one kidney had been gradually rendered functionless by slowly progressing disease and where compensators hypertrophs had gradualls become established without disturbance. But whether sudden withdrawal of one kidney would be tolerated had still to be proved by experiment upon animals. For the purpose of cleaning up this point Simon performed lifteen nephrectomies upon dogs and found (1) that the greatest risk of death was from peritoritis (2) that primary and secondary hamorrhage were less to be feared than he anticipated (3) that pyamia and embolism were not met with in a single case (4) that the effect upon the elimination of the renal excretion was not such as to lead to symptoms of uramja (s) no albuminum or hypertrophy of the heart resulted from the operation and (6) the remaining healthy kidney within a short time increased in size and was soon competent to perform the double duty suddenly imposed upon it. These

results encouraged Simon to perform nephrectom in 1860 eight years later than Wolcott. But as Garrison's says. He killed his second patient by sepsis from a digital exploration. Dr Wolcott's nephrectomy was as the account

shows an operation of necessit No clear cut luggness was possible and only on subsequent examination was the removed tumor mass found to be a discased haring. If will be noted that the patient died fifteen days after the operation apparently from echanism caused by the great amount of suppuration which necessary it looked Novertheless this operation manual looked point as marking a material production of the state of

MirfMI thedwors

infection

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Todd 11 C Aseptic Cavernous Sinus Thrombosis

Todd states that lateral sinus thrombosis is the result of extension by contiguity of tissue Following inflammatory processes within the temporal bone due to infection the membranous sinus becomes sur rounded by inflammatory tissue and frequently hes in a pool of pus The inflammation then involves the ven causing the intima of the vessel to throw out a sticky exudate which picks up the red and white blood corpuscles and other constituents of the blood and forms an aseptic thrombus If the pus is not re moved by prompt operation the vessel walls soon soften When this occurs the surrounding bacteria readily penetrate them and the thrombus becomes infected A new syndrome is then presented and the blood picture is that of bacteramia If operation is not performed at this time the infected thrombus begins to break down and the symptoms and blood nicture are those of septicamia

Told believes that all lateral sinus thrombi are aseptic during the formative period and that lateral sinus thrombi are not formed as the result of the direct passage of micro organisms into the lateral sinus or of an infected embolis into the sinus

and to ro in an interest embodith into its situs. Mereports a case in which the patient developed all reports a case in or which the patient developed cause inflammation of the contiguous caremous situs and the intima of the cavernous sinus threw out suncient evidate to pick up the red and white bool cells and blood platelets to produce a thrombus However as the sphemodal simis has a rather large opening for natural draining and sphemodal infection alians tends to become cured spontaneously resolution took place before the infection bat I broken down the membranous walls of the cavernous sinus artist allowed the bacteriat to infect the thrombus.

Maybium J L and Goldman I B Prismary Jugular Buth Thrombosts 10) gescape 1928 XXXII 00

In primary jugular bulb thrombosis an infected thrombus is formed in the lateral dome of the jugular bulb. In the early stages the lateral and sigmoid inuses are not affected. In the authors cevew the chinical a pects of the condition and report nine

Primary jugular bulb thrombosis should be con si lered in the diagnosis of cases with a history of middle ear suppuration a persisting septic tem

perature and septicemia otherwise unexplained It occurs most commonly in young children. The temperature ranges from 90 to 104 degrees? It may be used to be under the organism responsible to the organism responsible to the organism responsible to the organism of the method of Ottonberg. The organism of the method of Ottonberg will be technique callide for a culture from both internal jugular vents. The number of colonism govern from the blood obtained from the affected side be cause the obstrating thrombus prevents the passage of organisms, with the satisfaction of the organism of the properties of the organism of the properties.

Prompt surgical interference is imperative. The operation should be done with minimal trauma. Ligation proximal and distal to the thrombus should be done and the sinus curetted and ilrained.

In the cases reviewed operation revealed a sclerosed mastoid and an intact sinus wall which was gray and insterless and contained an obturating thrombus

ANTHONY I SINA M ID

Borra E Inflammatory Tumors of the Suhmaxil lary Gland (Contribute allo studio dei tumori inflammatori della ghan lola sottomascellare) I olid n. Rome 1928 exx. siz chir 345

Bora reports a case of recurrent inflammation of the submaxillar, gland in a woman twenty five vears of age which began about five years ago with lever and difficulty in sy allowing. At first consecutive treatment caused the condition to recede leaving only via induration of the gland but in the last attack the swelling had not yielded to it.

On its removal the tumor proved to be an in flammator, neoplasm of the submaxillars gland this being shown by small cell infiltration. The operation was followed by uneventful recovers

The etiology of inflammatory tumors of the submarillary gland is unknown. The neoplasms occur as a rule in adults and more frequently in males than in females. It is generally agreed that the inflammation is of a bacterial nature, but the causative microoreani in thas never been solated.

In the beginning the condition is apt to be con fused with a true tumor. However, the inflammatory tumor grows toward the skin rather than toward the foor of the mouth grows more down than a true tumor and does not affect the general health or cause gland metastases. Syphils can be excluded by bloogical and therapeutic tests.

If the inflammators mass is removed the prognosis is good. The only treatment is surgical. Removal

from the exterior is preferable to removal through the mouth as it gives a better opportunity for radical extirpation and good drainage

ALDREY G MORGAN M D

EYE

Wheeler J M Pulsating Exophthalmos Atlantic M J 1928 xxxx 812

Wheeler reports five cases of pulsating exoph thalmos and draws the following conclusions

r As pulsating exopthalmos is essentially a progressive condition practically all cases should be subjected to treatment even when the pain is negligible and the head noises cause little annoyance

2 Digital compression should be begun as soon as the diagnoss is made. There is a remote possibility of repair of the arterial lesson by organization and in any case compression is proper preparation for ligition of the common carotid. Digital compression may be safely practiced several times a day for penods of fifteen muutes.

3 If the symptoms are severe prompt operation and generous doses of an analgesic (morphice) may

be necessary

4 Incomplete blocking of the common caroud on the affected or more affected side is usually in order as a first operative step. Later complete blocking may be effected with section of the arter 5 If further relief is necessary the second common carotid may be operated upon in the same

mon carotid may be operated upon in the same way after a few weeks and after preparatory digital compression. If the bruit is localized in the region of the supernor opthalimic vein this vein should be ligated in preference to the second common carotid

- In any case with considerable protrusion secure adhesions should be obtained between the lid margins and firm pressure applied with a gauze dressing and pressure bandage. In this way the protrusion can be held in check and the coroca safe guarded. The pressure bandage is not safe without accurate apposition of the lid margins by autures (if for only a few days) or by intermarginal adhesions (if for a considerable period) Three firm adhesions about 4 mm long will probably meet the require ments. Plaques of epithelium the size of the desired adhesions should be removed from the lid margins above and below in the middle and midway hetween the middle and two ends of the palpebral fissure and the denuded areas brought into snug apposition by double-armed sutures passed through them which enter the skin surface of the upper lid near the mar gin and emerge through the skin surface of the lower hid near the margin These sutures should be left in for five days and the patient should not be allowed to open the eye for five days more At least during this ten day period a firm pressure dressing should be kept on Ordinarily the intermarginal adhesions should be left for several months
- 7 Postmortem examinations should be made more frequently and the pathological findings reported in detail Lestre L McCov M D

Anderson J R Reconstruction of contracted by Sockets J Collegs S r familiant to § 31.1. In the operation described the list are first fired from the orbital faces by incasing the conjustion above the upper and below the lower times as well as the solution of the list of the solution good entire times as the bits. To obtain good length of the bits To obtain good the the did not a needle is passed through the hisk fire the bits of the solution good of the solution of the solu

All scar tissue is carefully excised The guides throughout the operation are the re quirements of a suitable artificial eye. A mould is made of dental way sterulized in lysol. This consists of a pad with a handle in the center of the external surface The mould should fill the socket to com pletely that the lids will just meet over it Before the mould containing the graft is inserted the socket must be tightly padded to lessen the hamor thage Sutures are never required. The graft is of the Thiersch type cut from the inner surface of the thigh or the deltoid region. It is placed with the superficial surface against the mould and the edit meet around the foot of the handle The lids are retracted and the mould is inserted and pres ed carefully into the upper forms. The hils are then drawn over it and the sutures tied while it is pressed tightly into the socket. Three pad are firmly strapped over the lids and a pressure handage is carefully applied The other eve is covered with a

separate bindage

Mer the operation both eves are lept bands of
for four days. The dressing is then changed and the
disk are painted with mercurochrome. Vo first
dressing is necessary until the service of the
the sating are then cut and removed of the
satings are then cut and removed. The property
of the country of the cut of the country
of the country of the cut of the country
of the country of the cut of the
the mould is removed washed in stales solution
and re-inserted. The lists are kept strapped until
the third week when the mould is replaced by a
large artificial, eye. The final eve i inserted at the

end of a mooth

The author emphasizes the importance of care in
the treatment of sever us we perfect fitting of the
mould immobilization of the graft for at least seven
days and the wearing of an oversized eve in the
socket for four weeks

I ESLIE L MCCOV VI

Gifford S R The Acute Rise of Tension Follow ing the Use of Adrenalin in Glaucoma 4m J Ophil 19 8 x 35 623

It is generally known that adrenalm while having no effect on the pupil or tension when dropped irio the normal eve produces didatation of the pupil will a marked decrease in intra ocular tension when it injected beneath the conjunctiva Clifford sois's small cotton pledget in adrenalm and places it in the upper cut de sac. This is as effective as injections.

The eye is first given two instillations of 2 per cent butyn. A decrease in the tension is usually noted within one of two hours and alter the only four hours the tension sixten between 100 and 12 mm (Schotz). In the producing the produce 100 and 12 mm (Schotz). In the producing the producing the producing the normal within a few days. In a fair number of cases it may then be kept normal for a much longer period by the use of esenne which previously was not effective.

Gifford has found that adrenalm or glaucosan is of value in chrome simple glaucoma but is contra indicated in acute inflammatory harmorrhagic and absolute glaucoma and in glaucomatous intus. The danger of producing an attack of acute glaucoma is due to the adrenalm involvania. This can be prevented or decreased by the use of miotics before and

after adrenalm treatment

- The author draws the following conclusions in chronic simple glaucoma adrenalm (or glaucosan) is of definite value as an adjuvant to other remedies. It is dangerous in inflamed eves and damaged vessels. Hence it is contraindicated in acute glaucoma in unflammatory and hemorrhance flaucoma and in absolute elaucoma.
- 2 It is contra indicated also in glaucomatous intis
 3 The danger of provoking acute glaucoma is due
- to the mydrasis

 4 There is more danger of provoking such at tacks even in simple glaucoma than previous reports indicated.
- § Mydrinsis should be prevented or decreased by the free use of miotics before and after adrenalin treatment lestie! McCov M D

Duke Elder W S The Etiology of Glaucoma Pril W J 1928 ii 230

The first matter to be settled in the problem of intra ocular pressure is the nature of the proc esses controlling the formation of the aqueous aqueous is not a secretion nor under normal cir cumstances a transudate. It is a dialysate of the capillary blood formed by the same processes as the other tissue fluids. The process is modified however by the relative impermeability of the ocular capil laries The fluid contents of the eye must be kept clear and practically free from colloidal micelles This is accomplished by making the capillary wall relatively impermeable. I dialysate in equilibrium with its parent fluid must have a very precise and lefinite chemical composition osmotic pres are reaction electrical potential and relationship between its hydrostatic pre sure and that of the parent fluid. The aqueous in all conditions is in complete thermodynamical equilibrium with the plasma-chemically osmotically electrically and hy frostatically. Its formation 1 a physicochemical

The second fundamental determination to be made in the study of intra-ocular pressure is the nature of the circulation of the aqueous humor

Three factors entering into this are (t) a continuous netabolic interchange between the aqueous humor and the blood through the capillary walls (2) interior than thermal circulation caused by convection currents in the anterior chamber and most important a through and through pressure circulation and (3) the changes in the volume of the contents of the globe which occur in the viticous

The vitreous is a gel bathed in aqueous The main determinant of its volume is the degree of hydration

of its colloid particles

If glacoma is considered merely as a pressure symptom the two man factors in its etiology are (1) a decangement of the capillary circulation in volving a capillary distaltion which produces me capillary pressure in the capillary in the capillary

LESLIE I McCoy M D

Gifford S R Ocular Complications of Diabetes
Wed Clin V Am 1928 21 423

The best known ocular complication of diabetes is cataract, but the author believes that as a large percentage of diabetic cataracts occur after the fortieth year of age a time of life when ordinary sentle cataracts also develop the importance of cataract as a complication of diabetes is overesti mated He states that a entaract should be regarde ! as a diabetic cataract only when it conforms to the type occasionally seen in young diabetics. This type is characterized by the appearance under the cap sules of both lenses of fluid vacuoles which propress rapidly. A condition allied to diabetic cataract is the occurrence of remarkable changes in refraction during the course of diabetes. This is probably due to a change in the osmotic pressure of the blood The high blood sugar allows fluid to penetrate the capsule causing the lens to swell with resulting myopia

Changes in the intra ocular tension occur in disbetes. With high blood sugar and actions hip potons is the rule. Two types of retural lesions are seen (i) white patches which are usually small and single or occur in small groups and (z) harmorthages. It is probable that the artenoselerous which acrom pauses diabetes is an important factor in the etiology of the returnts. The prognosis for life and vision is much better in these cases than in cases of allow mounter returnts.

Clark N T Infection of the Eye In cena J M d & S eg 2928 xh 436

Clark reports the case of a fourteen year-old boy m excellent general health who was struck in the eye by a piece of rock while he was working in a field. The wound penetrated the cornea but dul from the exterior is preferable to removal through the mouth as it gives a better opportunity for radical extirpation and good draininge

ALDREY G MORCAN M D

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W J 1928 xxxx 812

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Sockets J Colleg Surg tu ! alana 1928 1, 1

In the operation described the list are fixthest from the orbital fasts by incars; the conjoint above the upper and below the lower time a much conjunction as possible being fell stinked to the list. To obtain good cryo are stout as threaded on a needle in passed though the list in other surface and then open of through the list of the moder surface and then open of through the list of the modern of the surface and then open of through the list of the surface and the surfac

The guides throughout the overation are the requirements of a suitable artificial eve A mould is made of dental was sterrized in 1, sol This consult of a pad with a handle in the center of the external surface The mould should fill the socket a com pletely that the lids will just meet over it. Before the rould containing the graft is me ed the socket must be tightly padded to les en the hamor thage Sutures are never required The graft it of the Thierech type cut from the inner surface of the thigh or the deltoid reg on It is placed with the superficial surface against the mould and the edger The lid are meet around the foot of the handle retracted and the mould is inserted and presed carefully into the upper forms. The lide are then drawn over it and the sutures tied while it is presed tightly into the socket. The pads are himly strapped over the lid and a pressure bandage is carefully applied The other eye is covered with a separate bandage

separate bindage. We then the state the the three for there has private and a then charged and a fall shade and a fall shade and a fall shade and a fall shade planted with encrupachmone. No further same as necessary, entit the seventh for The sutures are then cut and removed and strapping applied to keep the high closed. On the tend with the mould is removed unabled in sail a solution and removated. The links are keek strapping that the three week, when the mould is replaced to the three week, when the mould is replaced as the definition of the first of the strapping that a solution of the strapping that the three week when the mould is replaced at the end of a mount of the first of the strapping that the s

The authors emphasizes the importance of care in the treatment of serv 1 swe perfect fitting of the mould immobilization of the graft for at least seven this and the wearing of an oversized open it to socket for four veels. Lesue L. McCo. M.D.

Gifford S R The Acute Ri e of Tension Follow ing the Use of Adrenalin in Clincom 1 im J Ophik 1928 1 3 628

It is generally known that adrending while having no effect on the pupil or ten ion when dropped rite the normal ever produces dilatation of the pupil of a marked decrease in intra ocular ten ion when its supected beneath the conjunctiva. Gifford soils a small octton pledged in adrensin and places it in the upper cuid de sac. This is as effective as vigoetamic

lloward H J The Intravenous Use of Typhoid Paratyphoid Vaccine in Eye Diseases Am J Oblib 1028 xt 3.5 686

Howard reports cases of ocular disease an what intravenous injections of typhod paratyphods was cane give excellent results. The injections were beneficial only when they were followed by fever Contra indications to the treatment are: (r) a temperature more than a degree of the injection with previous properties of the properties of the injection of the injection of the injection of the injection of the well-borne by the heart. Lyun's V Corse VI D

Hagedoorn A The Early Development of the Endothelium of Descemet a Membrane the Cornea and the Anterior Chamber of the Eye B if J Ophih 1928 vii 479

The author points out that there is no reason whe should assume that the formation of the structures of the anterior chumber in man is different from their formation in the higher animals. In several of the higher animals the corneal epithelium is the first structure anterior to the lens to be definitely differentiated and even in very vounce embryos it was a basal membrane. Between them embryos it was a basal membrane letter in the differentiated and even in very vounce embryos it will be a basal of the control of the control of the lens (2) the margin of the optic cup and (3) the surface ecto derm

In the lower forms of vertebrates a primitive cor nea of hyaline membrane is formed early Posterior to it the endothelium grows in as the first mesoder mal element of the future corner and then the strom; cells grow in edgewise between it and the corneal epithelium. At the same time or a little later as the endothelial cells grow in behind the surface ectoderm as a compact layer other mesoder mic cells though moderate in number invade the anterior vitreous taking over the nourishment of its fibers Under their influence the anterior vitreous changes its original aspect the fibers becoming much thicker Because of the great vulnerability of these anterior vitreous postendothelial fibers fixatives cause shrinkage with the formation of artificial spaces Previously these spaces were confused with an anterior chamber. In the very early stages there is no anterior chamber

The first meso lermic element of the cornea is the endothelium of Descemet's membrane. This endo thelium is entirely independent of the corneal stroma cells, which are mesodermal enithelial cells.

THOMAS D ALLEN M D

Burky E 1 and Woods A C Lens Protein the Isotation of a Third (Camma) Crystaltin

tric Ophia 1928 ht 464

The authors have demonstrated that lens protein is composed of three immunologically dittinet fractions alpha beta and gamma crystallin. The alpha and beta crystallins are pseudoglobulins antigenically active organ specific and lacting species.

specificity The gamma crystallin is an albumin which is isolated from the beta crystallin. The beta crystallin roust therefore be considered a beta gamma complex.

Marlow S B A Case of Hæmangloma of the Chorold 1rch Ophth 1928 Ivii 484

Marlow reports a case of harmangoma of the choroid in a nineteen year old boy who had a nervus on the left side of the forehead. The appear ance of the retina suggested detachment due reudate. Vision was reduced to hand movements and with an increase in the tension a secondary cataract appeared. As the pain became progres sively more severe thee; e was removed. The pathological examination was made by Verhoeff.

VIRCIL WESCOTT M D

Mann I C The Process of Differentiation of the Reginal Layers in Vertebrates Best J Ophth 1028 NR 440

The author summarizes the general principles of the process of differentiation of the retinal layers in vertebrates as follows

The ganglion cells are the first to differentiate The amacrine cells are intimately associated the ganglion cells and only secondarily sen

with the ganglion cells and only secondarily sep arated from them 3. The inner nuclear layer is a complex layer con taining elements derived from both the primitive

retinal layers (se the inner and outer neuroblastic layers)
4 The percipient elements are the last to differen

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1 The supporting tissue differentiates relatively
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lows the original general plan
Thioxis D Arrey M D

EAR

Grove W. E. Otological Observations in Trauma of the Head. A Clinical Study Based on Forty Two Cases. 1 ch. Of laryngol. 1923, viii. 249.

Grove states that persons who have sustained an injury of the head should be examined as soon after the accident as possible an lat regular intervals over a con iderable period of time

The seventy of the injury does not bear any direct relation to the development or degree of cochlear and vestibular symptoms

Most injuries to the head in civil lile are caused by a broadly acting force which compresses the skull 110

not cause incarceration of the iris. The physician who was first consulted prescribed simply a boric acid wash Clark first san the patient sevents two hours after the accident. The eye was then inflamed and presented a yellow appearance with a greenish tinge extending over the iris and the strue tures just posterior to the cornea. The tissues were friable brittle and dry There was no definite pustule but all of the insues of the eye were smallen and there was a rapidly spreading ordema with in duration and a small area of gangrene. The box appeared very sick. He seemed langual stunid and tired and his temperature was 99 5 degrees F On the following day his temperature was a little higher and the gangrenous process in the eve had progressed rapidly. The eye was removed under general anas thesia. On the same morning anthrax bacille were found in smears The boy recovered The source of the infection was found to be the wool in a base ball glove which the patient had received as a prize LYSIAN A COPPS ALD

Woods A G Protein Therapy-Specific and Non Specific-In Ophthalmology Irch Ophth 1928 111 483

There are four phases of specific therapy in ophthalmology viz the u e of (t) tuberculin (2) bacterial vaccines and their derivatives (1) uveal pigment in sympathetic ophihalmia and (4) lens protein in diseases of the lens. In the diagnostic use of tuberculin the object is to determine the presence or absence of an unusual degree of tuberculin hyper sensitivity without causing a focal reaction in the

Autogenous vaccines have not proved of much value except possibly in cases of furunculosis of the lids and blepharitis Recently the antivirus of simply lococci and atreptococci has given bulliant results

In active sympathetic ophthalmia there is hyper sensitivity to uveal pigment and pigment therapy appears to be of very definite value

The status of lens protein therapy is highly con troversial Much is now known about lens sub stance but very little about the therapeutic ad ministration of lens protein. Non specific protein therany in the form of milk anti-diphtheria serum and typhoid vaccine has been employed extensively of late but such i reatment is specialized. The choice of protein and the dosage must be governed by the reaction desired the condition of the inflammatory lesion and the patient's general condition

VIRGIL WESCOTT M D

IIII E Tuberculosis in Relation to the Eye So th If J 1928 vs. 607 Woods A C and Rones B The Therapeutic Use of Tuberculin in Ocular Tuberculosis Sorth M J 1928 Xt1 613

Hirr, states that tuberculosis may occur in any tissue of the eye in an otherwise apparently healthy person free from indications of Juherenlosis elsewhere

in the body Tuberculin if properly used anism the healing process These facts are so little appreciated by those who make the general study of the patient in collaboration with the specialist that active to operation between the internist and ophthalmologist as often hmited

Woods and Roves report their experiences with tuberculin used as a diagnostic and a therapeutic

The patient is examined thoroughly for tuberculous and non juberculous lesions elsewhere in the body and if any such lesions are found they are treated The intracutaneous tuberculin test is em played a con mgm O T being used as the initial dose If necessary the dose is increased to o r men For treatment a broth filtrate is used Beginning with 0 000 000 1 mgm the dosage is gradually in creased until about 60 mgm can be given withou causing a reaction

Of forts two patients treated in this was 10 per cent showed systemic evidences of tuberculosis 40 per cent showed evidence of other foci of infection at per cent had definite recurrences of the ocular disease after mitsal bealing 45 per cent appeared healed 45 per cent showed definite improvement and ioper cent showed no improvement None of the patie to

While improvement in the clinical picture may be expected early true healing requires a rather lor,

The early sujections must be minute and duning treatment the eyes must be under constant observa tion while the local reaction determines the dorage VIRGIL WESCOTT M D

Zimmerman E L The Rôle of the Arsphens mines in the Production of Ocular Lesions tref Ook & 1928 litt og

Zimmerman states that following the adminutes tion of arsphenamines three types of ocular reaction may occur

A direct toxic effect of the drug on the normal eye The only true loxic reactions involving the normal eye occur in the form of conjunct sai hy peræmia Such reactions may damage vessels al ready involved by cardiovascular and renal diese but there is no evidence that a normal vessel nerve or retina is ever affected

2 Jars ch Herzheimer reactions in the form of an intensification of an active lesion the activation of a quiescent lesion or changes in structures previously presenting no clinical evidence of a pathological **Drocess**

3 Veurorecurrences and iridorecurrences of ocular lessons following insufficient treatment of primary or secondary syphilis with the arsphens mines In resuming activity the surviving organisms encounter a defenseless host and the resulting reac tion is a mailed one producing a neurorecurrence in the form of an optic neurits paralysis of the internal or external ocular muscles or an indorecurrence VIRGIL WESCOTT MD

Howard H J The Intravenous Use of Typhoid Paratyphoid Vaccine in Eye Diseases Am J Oblib 1028 xt 3 5 685

Howard reports cases of ocular disease in which intravenous injections of typhoid paratyphoid vacine give excellent results. The injections were beneficial only when their were followed by fever Contra indications to the treatment are (r) a temperature more than 1s degree C. above normal paratice and the second of the contract of th

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THOMAS D ALLEN MED

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Grove W. E. Otological Observations in Trauma of the Head A. Gilmical Study Based on Forty Two Cases irch Otologyngol 1928 viii 249

Crove states that persons who have sustained an injury of the head should be examined as soon after the accident as possible and at regular intervals over a considerable period of time

The severity of the injury does not bear any direct relation to the development or degree of cochlear and vestibular symptoms

Most injuries to the head in rivil life are caused by a broadly acting force which compresses the skull with or without causing fracture. This compressing force results in damage to the brain the cerebro spinal fluid and the vascular system of the blood as well as to the skull.

In the skull the compressing force of the injury finds its greatest expression at the bree because of the more or less unequal strength of the constituent parts of this portion. The mindle fossa being weaker than the unterior posterior fossa is smost often affected. The pyramid weakly attriched in the middle fossa takes the brutt of the injury to the middle fossa takes the brutt of the injury to the

buse and is frequently damaged Fractures of the temporal bone are this led into trinsverse fracture longitudinal fractures and vaulsaon of the tip of the petrous temporal bone. The longitudinal fractures are the most numerous. The laby intil a damaged by the concomitant concussion and the fracture usually involves the middle err and external canal. Transverse irrectures cross the pyramid at night angles and completely destroy both the vestibule and the cochien. Avalson of the

tip of the petrous bone is relatively rare.

The damage to the brain is caused by compression of the brain beneath the point of impact and

and the damage to the train is vassed by complex and at a point directly opposite. The damage done bit of the cerebroquial fluid accused by the compression that of the cerebroquial fluid accused by the compression than to expend its force in a whileful action in the fourth ventrier. The damage to the blood vascular system consists in a state of traumatic parilysis of the vasconstanctors with resulting states of the circulation in the brain tissue particularly in the central vestibular area and probably also in the laby rinth. In the temporal bone the clast findings at autonsy

an the centporas used the class manages at though we have made against the morthages are alwars pend implaint unless the capsale of the they made is fractured in which cess they may still be a considered by these intradalymentation and the scale temporal in the vacanity of the round who the scale temporaria to the scale temporaria to the considered by these temporaria to the scale temporaria to the considered by the scale temporaria to the considered with the scale temporaria to the scale temporaria to the parameter and the parameter and within the porus acusticus internus or an the narrow bone canals leading to the end organ

The pathological changes in persons dring years after an injury to the head are atrophy of the nerve there atrophy of Cortis organ which is most marked in the bisal roll and complete or partial filling of the inner ear spaces and canals with hyaline connective trisue and bin

The results of experimentation on animals show that the effects of mild upures are the same as though less marked than those found at sutops in the temporal bones of human bengs namely harmorrhage in the inner ear most marked in the basal coil of the cochlea and in the region of the round window all the cochlea and in the region of the round window all the cochlea and in the region of the round window all the cochlean of the control of the round window and the cochlean of the cochlean changes are seen also in the undecar terratory of the righth nerve in the floor of the fourth wintrick affecting mainly the small cells of the nerves to angulurs the nucleus of von Bechters the tyber culum acusticum and the posterior corpor quelrigenum. These changes are probable due no the to vasomotor disturbances in this section produce stasis with subsequent destruction of these

Hamorthage from one or both ears occurred in man of the cases reviewed. The author regards this as almost indisputable evidence of a longitudinal fracture of the temporal bone. It does not man bowever that great damage to the function of the

ear will necessarily ensue

A cardunal symptom of injury of the visibular system is vertigo. The vertigo is extiludar monga if it has a rotary quality if it comes on an stucks accompanied by nystagmus or rid it is produced to bending movements of the head. Other type of vertigo after injunces to the head are at to be not rottle expecially if they are constantly priest life the first two weeks or are accompanied be termed to the results of the control of the control

Spontaneous nystagemus is another cardinal typic mon of vestibular rupur. If is undistered roblateral and if blateral is more marked on one nde. It always rotary horizontal in character. The suther attributes it to a decompensation between the two vestibular systems. Bilateral nystagemus to always rotary stems of the normal persons when the second in the second in

tion of the vestibular nystagmus in his case. Disturbances in the pointing reaction were present in twenty eight of forty two cases and constitute a part of the spontaneous vestibular symptoms which occur after damage to the vestibular system hot much reliance can be placed upon them in declinaments which sade is involved. This is true all of the

filling and Romberg reaction

The straighthy of the labymath to calore sume lation are studied in thirty case all of which presented spontaneous labymathus symptoms. Normal reactions were found in ten cases hip initial in the latest cases in the present cases in the sum of the latest common in the latest cases and the words a decompensation between two labymaths is of far more importance the latest cases and the latest cases and the latest cases and the latest cases and latest ca

The Rime reaction was positive in thinty, fit cases negative in one case and not recorded in six cases. Bone conduction was shortened in tenth four cases normal in six and not record le in twelf four cases normal in six and not record le in twelf traumatic deafness caused by injury of the heaf was found in thirty one of forty two cases. Complete deafness in one care was present in one case

In 1 lirge proportion of the cise the defect in the heuring was histeral and a large number of the cases showed the upper tone range more affected than the lower and middle range. Of the thirty me pritents with defective hearing twenty eight had symptoms relerable to the vestibular apparatus.

Fowler E P Marked Deafened Areas in Normal

The author has frequently noticed a marked dip in the curve of the hearing graph between 1 coo and 5 oos cycles as depicted by audometer readings in otherwise normal ears. From this observation be concludes that in many otherwise normal ears marked deficiences of these mid-one formal earmarked deficiences of these mid-one of the marked deficience of these mid-one of the intervention of the constitution appearatus.

Four possible causes are (1) a limited central cortical lesion in an area governing these frequencies (2) a netwe fiber defect of the section of the basilar membrane which normally detects these frequencies (3) a defect in the terminal nerve apparatus and (4) an anti-resonance somewhere in the conduction mechanism. In the author's opinion, the latter two are probably of most importance.

MANFORD R WALTE M D

Stewart J P The Histopathology of Mastoldetis Proc Roy Soc Wed Lond 1923 xx1 1743

In his discussion of mastoiditis Stewart includes not only inflammation of the pneumatic cells in the mastoid bone proper but also all extensions into neighboring bones

The initial change in the directly infected zone is a local tise in the blood pressure causing a dilutation of the vessels in the haversian systems and hyper must of the muso endosteum.

The next stage is characterized by osteoclasis in the haversian systems

The third stage is the period of active rarefaction of the bony wall of the pneumatic space by osteo clasts and perforating vessels. This is due to the new pressure conditions

The fourth stage consists in the regeneration of destroyed tissue by new bone formation

The whole inflammatory process is subject to phase change which may alter it from a condition of extilation with an increase in the intravascular pressure into a more proliferative condition

Both the disease and the regenerative pro exes progress from within outward

JAMES C BRASNELL M D

NOSE AND SINUSES

Figi F A and Thompson L Rhtnoscleroma J to W 4ss 1938 vc. 637

The authors report six proved cases of rhino scleroma examined in the Mayo Clinic during the past eight and a half years together with the find

ings of incteriol spand studies made in three of them included in the group is probably the only case of this discusse in a native-born American which was diagnosed during the Line patient a voting man of Slavie parenting has never been outside the United States. In all of the cases the diagnosis was based on the history, and clinical findings and was confirmed to homosy and demonstration of the Frisch bacillus.

With the use of radium and deep noestiger ray, therapy marked suprovement was noted even in patients in whom the dhease had progressed to the stage of sclerosis. The radium applications were made externally over the affected area and also in direct contact with the dheased tissue. In two cases it was necessary to open the trachea on the case of the continuous meetingful obstruction caused by the local involvement.

When last observed four of the six patients were entirely free from chinical evidence of the infection One patient who was apparently suffering from bronchial involvement at the time of examination later succumbed to the disease. Another patient

could not be traced
In the bacteriological investigation three freshly

solated strains of the bacillus rhinoscleromatoiss were studied according to the manual of methods of pure culture study prepared by the Society of American Bacteriologists. Contary to certain reports in the lucrature these strains were as nearly strains of the same species. After six morths on artificial media the culture showed variation in sugar fermentation but on boolation only acid was produced in dectrose malics mannite saccharose invokes atablished pharmose mostles salicin glycerol and trefalose. There was no change in Bactose valoes atablished pharmose mostles salicin glycerol and trefalose. There was no change in Bactose valous ratinoses of dectrin 11 the salicin sali

Turner A L and Reynolds F E Acute Suppuration in the Accessory Sinuses Cavernous Sinus Thrombosis Acute Leptomeningitis Death Autopsy J Lary 2 l & Ulol 1918 xlm

565
To illustrate infection of the intracranial struc

tures by direct extension through the bone the author reports a case of antum ethonol and sphenoid infection with direct extension through the ethonol and sphenoid walls. This infection resulted in a leptomenonguis and cavernous sinus thrombosis as shown by autopay and microscopiu. Section Wilson Whater VID

Skillern R II Chronic Ethmoiditis Brit M J 1978 u 563 Howarth W The Conservation and Sunday

flowarth W The Conservative and Surgical Treatment of Chronic Ethmoditis Brit M J 19 8 m 262

SAILLERY divides chronic infections of the eth moid roughly into the suppurative and the non sup-

purative types Those of the first type are character ized by a purulent secretion with a more or less nide spread crearrhal inflammation in the ethmor i region and those of the second type hy polypoid hyper trophy or true polyp formation. In some cases a combined form occurs The author gives also a more exact classification and discusses the sarious types in detail

Suppuration in one or more of the anterior cells : not an entity except in cases of purulent infection of the lining membrane of the bulla ethmordalis The posterior cells are more frequently the site of chronic disease These cells are larger and more numerous Their drainage can be easily interfered with by slight swelling of the nasal mucosa. The combined type of infection involving both the anterior and the posterior cells is usually the direct sequels of an acute infection or a series of acute inflammators dis turbances

In the hyperplastic type of ethmoshus the eth moidal mucosa undergoes hyperplastic changes rang ing from slight degeneration of a small portion of the

lower border to the formation of sessile polypi The basic treatment of all sinus infections and particularly those in which the ethmoid is involve ! is aeration and drainage. Skillern emphasizes the importance of conservatism in operative measures In the mildest cases of the suppurative type removal of the middle turbinate combined with freatment by medicated tampons is often sufficient

Complete exenteration is indicated when there is combined suppuration affecting the entire labs rinth The permanent ablation of polyps in hyperplastic ethmorditis depends upon several factors. The local tzed hyperplasia or separate polypi are usually re moved with the snare. The bony attachment should (1) cases in which the clotting time was prolonged

also be resected Complete knowledge of the regional and surgical during the operation and favors the occurrence of anatomy is necessary. In the author's opinion, the secondary ba morrhage intranasal operative coute to the ethmoid is the best and safest

HOWARTH states that no two ethmoids are able I'wo chancal types of chronic ethmoiditis are recog Sufficient alkali to neutralize the urine. In the cases nized (1) chronic catarrhal inflammation (polypoid of adults the author gives one terspoonful of sodium degeneration) and (2) chronic suppurative inflam be arbonate in a glass of water twice a day

PolyDi are to be regarded as the product of hyper plastic inflammation of the covering of the ethmoid hone Similar changes may be pre ent in neighboring tracts of the ethmordal mucosa In some cases the Joslin E P and Lahey F ti Diabetes and Ily polypus formation is due to primary disease of the mucous membrane covering the ethmoid This is the simplest condition. In its early stages it may yield to the use of astringent solutions and the removal of the polypoid hypertrophy

Usually however the cases are not seen until the disaster inflammatory process has spread into the ethmoid aeration and drainage. The removal of the diseased. This is evident from the fact that glycosuria #45 middle turbinate is indicated. In some cases a cure present before or after operation in 38 6 per cent of will refult from this procedure alone but as a rule cases of primary hyperthyroidism and 27 7 per cent more radual treatment is necessary

In the chronic suppurative variety of ethn this polyps are usually absent 1 con ervative attitule should be adonted In some cases removal of the middle turbinate followed later by a limited nor cellement of the diseased area will result in cure

In the author a opinion complete exenteration of the ethmoid cells is accomplished best by external peration In obstinate cases this procedure gives a higher percentage of cures than any other treatment B M Parov MD

PHARYNX

Yates A L Methods of Estimating the Liability to Eostoperative Hæmorrhage from Unsu tured Younds (Following Tonsillectomy) Proc Roy See Med Lond 1029 sti 1784

Lostoperative hamorrhage from unutured wound in which the arteries have not been ligated occurs in two groups of cases The first group in which the origin of the bleeding is arterial includes (1) cases in which an artery bleeds not at operation but afterward on the patient's recovers from soock (2) cases in which an artery bleeds on the patient a recovery from deep anasthesia (chloroform mixture tend to produce this type of bleeding) (3) cases in which bleeding from an artery ceases at operative because of the decrease in the blood volume but hegins again when the blood volume is made up by the tissues after the operation

The second group in which the bleeding is of capillary origin and due to deficient clotting time of the blood an ludes (1) cases in which the tio tag time previous to operation may have been normal but operation is followed by a compensated acidous before the operation allows excessive hamorrhage

In cases of compensated acidosis in which the clotting time is much prolonged the clotting time can be restored to normal by the administration of

W M PATON MD

NECK

perthyroldism im J Med Sc 1928 claret 1

The authors state that hyperthyroidism and dia betes show many similarities. When these conditions are associated even minor slips in treatment other wase without consequence will quickly result in

In disease of the thyroid which lead to glyco-The chief aim then should be to obtain free suna byperthy roids m is the fundamental factor of cases of secondary hyperthy roidism whereas in

a series of surgical cases without hyperthyroids m

In hyperthy rodism there is also a shight tendency toward hypergly-amia Therefore for the diagnosis of diabetes in hyperthyroidism the authors have raised 5the standard to a blood sugar of 0 15 per

ce tin the faiting state or o 20 per cent or more after meals in addition to glycosuria

Of the author 15 cases of hyperthy roulism with dub tes heredity was a factor in so per cent. The hyperthyroidism usually precedes the appearance of the diabetes though this is not easy to demonstrate According to statistics in the literature, the hyperthyroidism precedes the diabetes in \$5 5 per cent of the cases of primary hyperthyroidism and in Jan 18 strondary cases in which the hyperthyroidism is strondary.

In persons with thyroid lisease diabetes is twice as frequent as in persons with surgical conditions without hyperthyroidism but much less frequent than in those with pituitary disease. Frank diabetes was present in 2 45 per cent of the authors cases of primary hyperthyroidi m and 4 47 per cent of their

cases of secondary hyperthyroidism

The feeding of thyroid gland to normal animals has sometimes resulted in a lowering of the assumition of glicose and a decrease in the quantity of glycogen stored in the liver. Conversely thyroidectomy on normal animals increases, the tolerance for carbohydrates and leads to hypos became

The findings with regard to changes occurring in the pancies in thyroid disease are contradictor, in 6 of 10 cases of Basedow's disease which came to autopy. Holds found the pancies reduced in suc or the islands of Langerhans reduced in number or altered in structure. Sojima and Hoshinoto re ported hypertrophy of the pancies after thyroid deeling whereas other investigators have noted hypertrophy of the islands of Langerhans after thyroid-ctomy.

In the authors cases of diabetes with primary hyperthyroidism the average age at the onset of the diabetes was forty and five tenths vears and in those of diabetes with secondary hyperthyroidism it was forty seven and eight tenths years whereas the average age of onset of diabetes without hyper

thyroidism is forty three and eight tenths years.

The majority of the authors thyroid diabetics were females a fact in accordance with the greater incidence of byperthyroidism in females than m.

The diabetic over forty years of age is usually

overweight. Of the authors diabetics with hyper thyroi him 83 per cent were overweight

In 600 fatal cases of ordinary diabetes since the introduction of insulin, the average fength of the after the beginning of the disease was seven and seven tenths tears. In 12 fatal cases of diabeters and primary, hyperthyroidsm it was three and four tenths vears and in 6 fatal cases of diabetes and secondary hyperthyroidsm it was four and one-tenth years.

In 33 3 pee cent of the cases of diabetes with primary hyperthyroidism the cause of death was

diabetic coma

Before operation the patients with dial etes and primary hyperthy rodium showed in a verage basal metabolic rate of +6r per cert v hereas in 1000 cases of uncomplexed primary hyperthy rodium the basal metabolic rate before operation was +4p per cent. After the operation if the brasil metabolic rate controlled the operation in the brasil metabolic rate in the cases of uncomplicated hyperthy rodium at fell to +5; fer cent.

In diabetic patients with adenomatous goiters and haperthyroidism the average basal metabolic rate before operation was +44 per cent whereas in similar cases without diabetes it was +41 per cent After operation it fell to +10 per cent in the former

and +o per cent in the latter

In the cases of diabetes with primary hyperthy roading the gain in weight after operation averaged 21 lb whereas in cases of diabetes with secondary hyperthyroidism it averaged 13 lb. In cases of uncomplicated primary hyperthyroidism the average gain twelve months after the operation was 43 lb and in cases of dedomnations gotter with secondary.

hyperth) roidism it was 14 lb.
In persons belonging to the Jewish race who are prone to disbetes the incidence of disbetes with

hyperthyroidism is no higher than in others

The treatment of date to the perthy routem consists an agreement of a consist and the administration of insulin and Lugols and the administration of insulin and Lugols and manufactured at about 100 gm and the protein at approximately about 100 gm and the protein at approximately rgm and the total calonies at not lar from 20 per kilogram of body weight. Justilin nas given manifold of the perthy of the pert

a dose and was given more frequently Food was given within three hours before the

operation but usually, this did not exceed so gim of carbohydrate in the form of outmed greed orange, junc or ginger ale. The dose of insulin before operation was too small rather than too large. The quantity of Lugol's solution given before operation was for minima's times a day for eight or ten days and so minima's times a day for eight or ten days and so minima's times a day to eight or ten days and so minima's times and to minima's times and then are minima's times a day for about eight days and then are minima's were given a weelly for three months.

Intravenous infusions of glucose with normal saline solution were given when severe reactions

occurred or were anticipated

In 37 of the 43 cases of primary hyperthy roidism 64 operations were performed. The operation cause that the chomed on the basis of the number of operations was 150 per cent and reckoned on the basis of the number of patients 27 per cent. In the cases of 26 of 28 patients with secondary

hyperthyroidism 30 operations were done with an operative mortably of 5 x per cent reckoned on the

basis of the number of operations and 77 per cent reckoned on the basis of the number of patients Cure of the diabetes did not occur after the opera-

tions but as a rule there was a gain in tolerance

for carbohydrate

In 8 of the authors cases of hyperthamad dia betes the diabetes developed after an operation for hyperthyroidism Therefore the hyperthyroid pa tient who has been operated upon should be warned of the possibility of developing diabetes later even though the disease may not be so apt to appear as if he bad not been operated upon Progressing longevity increases the incidence of diabetes in the community and progressing longevity of the hyper thyroid patient brought about hy operation may also be a factor in that it brings him into the dia betic age zone the onset of the disease occurring most frequently in the fiftieth year of age in the cases of females and the fifty first year in the cases of males. The authors believe however that the hyperthy roidism also plays a part

I S MODERN MD

Thomson Sir StC Intrinsic Cancer of the Larynx Operated upon through a Laryngo fissure From Roy Son Med Load 19 5 In.

Laryngofissure gives an excellent result in in trinsic cancer of the lary nx The author revers seventy cases Thirty four of the patients are still hving from three to nineteen years after the opera tion Eighteen died from causes other than recur rence and three died as the result of the operation Eleven of the patients developed malignant diesse elsewhere including glands in the neck Most of the recurrences appeared within the first year When a recurrence develops in a borderline case larynger tomy is indicated. In subglottic cases with fired

cord the prognosis is unfavorable The nationt should be given careful pre-operative preparation The operation may be done under local or general anasthesis but deep general to arsthesia should be avoided. No atropin morphia,

or similar drugs should be used

W M PATON MD

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Fagleton W.P. Traumatic Lesions of the Head and Their Relation to the Ophthalmologist I Med Soc. V I rec. 1923 XXI 507

The author advocates for every general hospital a Department of Cranial Surgery with a Chief and Sociate both expert ophthalmologists and a technician trained to determine visual fields and conduct near a surgery and second surgery and second surgery areas of the second surgery and second surgery areas of the second surgery and second surgery areas of the second surgery and second sec

In cases of head unjury the degree of cerebral trauma and not the skull fracture is of chief importance. The three types of cerebral damage are (1) laceration (2) internal harmorrhage and (3) external harmorrhage or exudate Of these only the last calls

for surgical intervention

The traumatic cases are divided into ax chinical group hamely those with (1) extradural hemor thage from the middle meningeal artery character tied by a lunch interval (1) subdural hamor thage with a continuous headache and often popularism (3) success a extradural subdural and in empty of the morthages from repeated traumata (4) subdural hemorthage with secondars ordern characterized by more often deliminal (3), complete the contraction of the subdural hemorthage with secondars ordern without facture of the shull increased infractanal

pre sure or papillædema Mi idle me sinceal hamorrhage calls for immediate exposure of the aftery by subtemporal decompression performed with a drill and rongeurs not chiscle To prevent injury to the arachnoid cells subdural clots should be washed an av gently and not forcibly lifted out Subdural hamorrhage with secondary ordema if not too extensive can be controlled by repeated lumbar punctures or the administration of magne sium sulphate by rectum A compound skull fracture must be converted into a simple fracture as soon as the patient has recovered sufficiently from the shock to withstand the operation but not before Thor ough debridement i essential within eight hours All devualized and infected tissue and loose bone fragments should be removed. In cerebral compres sion immediate surgical interference i indicated when there is increasing unconsciousness with a reing systolic pre sure a falling diastolic pressure and a progressively increasing pulle rate with later papillædema

Basil fracture are usually considered inoperable with the exception of the e which go through the persons bone and are associated with thee ling from the car and exity signs of me ungits and those with degree of fracture into a frontal sinus. In cases of fracture through the temporal bone with suppura to an int be ear recovery results in 90 per cent and

death occurs in only 8 per cent if proper treatment or given. Twenty five per cent of all najuruses of the frontal sources result in death from meningitis hence that they give must be operated upon at once. All infect two tessie must be removed and any communication between the cerebral tissue and then oe closed with sain or fascia. In cases of fractures through the orbital roof with intra ocular blindness without ophthalmoscopic changes operation should be performed from shove and the orbital space decompressed in order to prevent subsequent optications, it is a subsequent optical controlled the confidence of the co

All operations upon adults should be done under local anasthesia. Repeated coughing if the dura is opened will often greatly assist in the extrusion of foreign material from within the brain.

LEFRET S CRAWFORD NI D

Dandy W E Artenovenous Aneurism of the Brain lreh Surg 1928 xvii 190

Artenovenous aneutrams may be divided into a man groups (i) the traumate which do not occur in the firain (2) the congenital a large group in which there is a communication between an artery and a contiguous vein by one or more aberrant vest of probably due to an error of vivuciar development in the embryo (3) those in which the arterior exosus communication is established through the medium of a mass of abnormal vessels which has exacular tumors known as angioma cayernoulum which seem to be the result of maldes elopment from the embryon carcular lands.

Many terms have been applied to these vascular dilatations and communications. Lienhoff suggested classifying them simply as verous arterial and arternovenous ancurisms. This would include all of

the types described

The first arterovenous ane...pare of the brain naproported by Steinhell in 1895. Dandy has collected 2 definite cases from the literature. He excluded seemal of those reported because thes did not have all of the essential 3 symptoms or findings namely, marked fullness and enlargement of the veins of ext and inercased size and tortunistic of the artery entering the mass of ve sels. At the Johns Hopels [160] tild arteriovenous aneuram of the brain was along a tent of the of verifical brain tumors seen duming a periol of fixed verifical brain tumors seen duming a periol of fixed verifical brain tumors seen to 1 per cent.

The author reports 8 cases in detail with drawings of the lesions. The patients were males ranging in age from fourteen to fifty two years. In

a the lesson occurred on the right side and consisted of a communication between branche of the middle cerebral artery and the robandic and svivian twens. In cross the lesson was on the right sade but more posterior and seemed to be connected with a similar lesson of the scale in the tempore occupital area. In a cases the aneurons was in the left particular region and was similar in type and focation in the first 4 cases mentioned in a case the lesson was occupital and in offsel the left vertical actions.

The duration of the symptoms range I from four teen months to fifteen years. All of the patients had convulsions except the one with a cerebellar anear sim. Four showed no signal or symptoms of pressure but presented focal symptoms. The V ray revealed changes in 3 cases in the cases there was qualified cidema. Ventriculography was of and in diagnosis in 2 cases and of add in cataoutomy in a others. The

diagnoss before operation was 'umor in a case; tumor or aneutism m a and aneutism m. I umor or aneutism aneut

followed by cure

Of the total number of 30 case revuewed 60 per cent were those of males. In a per cent the wmptoms did not appear until after the age of that we years and in 30 per cent until after the age of forty years. The duration of the symptoms ranged from a few hours to fifty years. The besons were closed in almost every part of the brain but an over whelming majority were in the paracentral review.

"The hi tological appearance of the sessis comprising the vascular skens is varied. These vessels are usually large but may be small. Their walls are thick or thin. The intima may be narrow but frequently is greatly thickneed. The cleasure issue layer is unsulp not well defined and the me ha is layer is unsulp not well defined and the me ha is proposed to the control of the control of the The vessel wills being netlistic may rupture asthe result of the prolonged increased pressure.

Convulsions are the rule and in most cases are of the jacksonan type. As a sequel there is usurally a transient motor or sensory piralpsis. Among other focal manufestations occurring at times are sphasis hemiaopsis and unilateral fors of sight smell or taste. The possibility of an arterist enous aneutron of the time and the time of the state of the state

but this is not common. In about 23 per cest of the cases increased intracranial pressure is evidence by heridache. Papillednein is not common and diplopia is rare. Cerebral hemorrhage occus frequently. 41 per cent of the deaths being due to the

In the diagnosis the \ rays and ventriculograph

give definite aid

The treatment is of two types (1) ligation of the entering articles with or without estimation of the mass of vessels. (2) ligation of the intend circle interpt (for cerebrial ancursm) and of the verkels artery (for cerebrial ancursm). Occasionally a street (for cerebrial ancursm) of Ceramonal a street (for cerebrial ancursm) of Ceramonal artery (for cerebrial ancursm). Occasional artery (for cerebrial ancursm) and the control of the case of the case of the control of the case of the

ALBERT S CRAWFORD VD

Van Wagenen W. P. The Incidence of latracra nial Tumors without Choked Disk in Oor Year's Series of Cases. Am J. M. Sc. 19.3. cirvy 146

This article is a resure of 365 brain times cust tracted in Cushing a clinic in the period from Oxbober 1914 to November 1915 with repeal start time to those without chooled disk One handed and eighty three of the cases were classified as without chooled or as supported of the 183 wented mer cases are were the start of the 183 wented mer cases are were the start of the 183 wented mer cases are the start of the 183 wented mer cases are the start of the 183 wented mer cases are the start of the 183 wented mer cases are the start of the 183 wented mer cases are the start of the 183 wented mer cases are the 183 wented the 183 wented the 183 wented mer cases are the 183 wented the 183 wented

Of the Sr unverified cases 9 (119 per ceril showed normal fund. While these cases are not wertfied histologicall); the presence of a tumor syndicated by shadows in the rentigeorgram sat sing calesfication and by field defects distortion of the ventricles and resistance to the exploring refile.

A review of the literature shows that in 13 Jackson cited 3 cases without choked disks and since then numerous similar cases have been it sorted In an analysis of 200 verified cases Pater found that in 20 per cent the fundi were normal at the time of operation or death. In a series of 60 cases Brain found normal fundi in 21 6 per ce ! In the production of choked disk the size of the tumor is of secondary importance the primary fer ture being interference with the cerebrospinal circu lation due to the position of the neoplasm or adems Absence of choked dask does not mean ab ente of an increase in the intracranial pressure. In 50 PC cent of the cases reported the presence of increased pressure was evidenced by hydrocephalus flatteans of the convolutions protrusion of the brain after decompression or convolutional impressions on the

Ol 17 verified tumors without choked disk 6 were located in the posterior fossa 3 were acoustic neuro mata 1 was an anomalous growth of the cerebellum r was a medullary tumor and r was a midline

cerebellar tumor

Eleven tumors without choked disk were supritentorial None was associated with hydrocephalus and none was very large although some of them caused ventricular distortion. Six were temporal or supramarginal. One was a parietal memmgioma 3 were parietal gliomata, and one was a parasaggital

Of the unvenfed tumors without choled dul. 6 (a) per cent) showed calcification. If the cerebellum is excluded the percentage is 30 Calcification is of considerable importance in the diagnosis of brain tumors. In a review of cases seen in Cushings of hime over a five vear penod Van Dessel found calcification in 13 5 per cent of verified phomatic in 3 unvenified cises without choked dus. find changes were found. The cases are reported in the distance were found to the cases are provided in the change were found to the cases are provided in the change were found to the cases.

GILBERT C ANDERSON M D

Pancoast II k. The Significance of Petrous Ridge Deformation in the Roentgen Ray Diagnosis and Localization of Brain Tumors im J Roentgenol 1928 xx 201

Of 227 proved brain tumors 65 were pituitary of cerebral and 55 cerebellar or situated at the crebellopontine angle. In the cases of pituitary item for heroitigen ray findings were correct in 38 (89 a per cent). In the 97 cases of cerebral tumors there was positive roentigen ray, evidence of tumor in 55 (86 7 per cent). Twenty, sav of the cerebral tumors were localized iroentgenologically. Of the 59 tumors were localized iroentgenologically. Of the 59 tumors in the posterior fossa tumors 30 (50 5 per cent), were demonstrated but only 2 were

localized with the roentgen ray

Extrasellar brain tumors are recognized roentgen cologically from exclinections within the tumor mass hyperotores associated with metingomats shift and pressure effects and pressure effects. The pressure effects may be both greated and local. Among the effects of a general increase in the intracranial pressure are atrophy of the convolutions prominence of the sutures than ming of the skull and atrophy of the posterior part of the self-state of the self-state

This article is concerned chiefly with deformities of the petrous portion of the temporal bone as a

re ult of pressure

The value of the occupied year a emphasured study of the perious ridge in 117 roentgeno grams of normal persons showed both sides to be regular and symmetrical in 109 (ag per cent) liregularities occur more often on the right side (etc) slight defects especially if on the right side shoul be disregarded but when there is chinical shoul be disregarded but when there is chinical the state of the control of the contro

evidence of an intracranial tumor a deformity of the petrous ridge is significant and a valuable lo

calizing sign

The author cites 6 cases in which this study was of aid in confirming the diagnosis and localizing the growth. In x instance the clinical examination indicated a tumor on the right side but the de formity of the petroos ridge was on the left and at operation the tumor was found on the left and at large continued the tumor was found on the left side. In another case in which there was a difference from the side of the control of the contr

It is probable that more than one factor is responsible for the localized bone atrophy. Probably direct pressure from a slowly growing tumor is of chef importance. When the atrophy occurs in the neighborhood of the internal auditory meature the presence of an acoustic tumor is to be suspected in addition to pressure direct infiltration of the bone by the tumor is responsible. Another factor is obstruction of the lateral sinus as by an angle tumor with resultant dislation. After a long time bone changes may result from the pulsations trans mitted to a tumor mass directly over the bone

CHARLES II HEACOCK M D

Cushing II and Balley P Ilsemanglomata of Cerebellum and Retina (Lindau a Disease) with the Report of a Case Arck Ophila 1928 Ivn 447

Cushing and Bailey who have done so much to clarify our vews on tumors of the gloma series are again pioneers in bringing before American physica cann the brilliant work of the Swedish pathologist Arvil Lindau. In this atticle they give a bird er ewe of Lindaus work and of the case reports in the literature before Lindau recognized the relation ship between hermangiohistomats of the return and cerebellum and other parts of the body such as the credit of the control of the control of the control of automations returns recording the form of automations returns recording the control of automations and the cases of Lindau schools are seen in their compositions.

The latter the first case of Lindaus sheates to be reported in the American hierature was that of a man forty years of age. At operation performed December 3, 1922 a cerebellar cyst containing xanthochromic fluid with a small mural tumor was removed. Prompt recovery followed. The hermal gioblastoma in this case was first diagnosed as a vascular client.

In 1936 while the authors were engaged in a study of tumors arising from the blood vessels of the brain Lindalus monograph appeared. This caused them to restudy their eleven cases of harmangio blastoma. In all of their cases the tumor was located in the cerebellum. The of the patients died. In

the three cases in which an autopsy was performed no abnormalities were found elsewhere in the body (spinal cords and retine not examined)

The patient whose case is reported was the first of the six survivors to return upon request and was

the only one who had no number takable return in tiom: The lesion is ilescribed in detail

Because of the known familial tendences of the di ease additional facts were sought on the nationt s re admission to the clinic. It was found that his fither had died at the age of thirty six years in an attack thought to be due to the rupture of a castic tumor of the brain which was called a sarcoma light veres previously his father's auter had died in a similar manner. Of the patient's two sisters one brother and eight children several have noor

evesualt. One stater and all of the children have

been examined but a vet none of them shows

hemanmomatous changes of the retina fro W Dumper VD

McLean A J The Route of Absorption of the Active Principles of the Posterior Hypophysial fabe Interictes 1929 to 40

McLean titrated the oxytocic power of dialysates from the blood plasms of dogs human beings an! cattle (gunea mg s uterus checked qualitatively by melanophore tests on frogs) against pituitria of known strength He found presumptive evidence of the presence of pituitrin in the blood of these animals and that the concentration of this substance was greater in the external jugular veins than elsewhere in the body while the concentration in the cerebro

pinal fluid was about equal to that in arterial blood He is therefore led to the conclusion that the absorption of the products of the posterior lobe of the hypophysis takes place primarily by way of the blood stream rather than by a transneural route

Leo M Dissipage M D

Reichert F L The Results of Replacement Ther any in an Hypophysectomized Puppy Four Months of Treatment with Daity Pitultary Heterotransplants Indoc in I ev 10 8 xp 451

Reichert has repeated on a dog the work done by Smith on rats. Hi results although not so striking as those obtuned by Smith were nevertheless inficative of the control possessed by the pituitary gland over growth and sexual function

I female puppy six weeks old was hipophisec tomized and allowed to go for six months untreated During this period she failed to grov or mature physically or sexually as compared with a healthy litter mate sister

When she was seven and one half months old replacement therapy by daily injections of fresh rabbits hypophysis was started. Congestion of the external genitalia occurred within forty eight hours and continued throughout the period of treatment which lasted four months During this period the milk teeth were replaced by permanent teeth the eniphyses closed and the coat changed from the downy coat of a puppy to that of an older dog

The increase in size and weight was not striking but the author believes that this was due to his having delayed treatment for so long after the happ trad Damer MD physectoms

SPINAL CORD AND ITS COVERINGS

Aubie I S and Fulton J F A Clinical and Pathological Study of Two Teratomatous Chin of the Spinal Cord Containing Viucus and Cill ated Cella Surg Giver co Obst 1923 al u 20

The authors describe two yers rare teratomatous c) sts of the spinal cord containing thick egg white fluid full of culiated epithelial cells Both were successfully removed at operation. The first was found in a boy of two years who had been dragging his right foot since he first began to wit. The early symptoms were rather indefinite but eventually there were unequivocal signs of cord ton pression with spinal fluid block and the thick find containing ciliated cells was evacuated by lookat puncture Removal of the cyst by laminectoms #2 followed by complete recovery

The second tumor was found in a noman treatseven years of age who since the age of two had had five sudden atta ks of left hemiplevia with pin in the left cervical region and Brown Sequand dissocietion of sensation in the trunk and extremis The attack for which the patient entered the hospital caused respiratory embarrassmert and almost complete quadriolegia with sen ory disturbance at the level of the fourth cervical vertebra. The est removed at operation resembled that found in the first case but showed complexities commersuate with its greater age Recovery resulted

In discussing the pre operative and postoperative course in the second case the authors state that in the patient s last attack sa in the earlier ones the paralysis developed first and persisted to gest on the left side although during the height of the con dition it was the right side that showed the m profound to s of power The left side showed from first to last the more marked refler hyperercush The evolunation sugrested is that the right side suffered the more recent injury and hence ma ! fested the flactidity of spinal shock while on the left side there was presumably a condition of chroni impurment of the upper motor neurones comi

shock having long since pa sed off It was observed also in this case that painful sensations from the muscles joints and tendors were preserved on the left side although the sense of position on this sale was lost However on the right side where the cutaneous sense of pain was diminished the pain in deeper structures nas also diminished Accordingly the fibers that mediale deep pain must run in close proximity to those mediating cutaneous pain It was significant al-0 that on the left side with normal cutaneous sea substity a high degree of posterior column a teres

Postoperatively the various sensors and moto functions returned in the reverse order from that in shi h thes had disappeared. Throughout the pt tient's recovery motor functions returned more promptly than sensory functions Of the sensor functions the slowest to return were the more

nosis was present

highly developed qualities of sensation such as that of the perception of light touch and the texture of materials. Pain returned more rapidly probably because it passes along fibers of small diameter which are less susceptible to compression

I to M DAVIDORE M D

SYMPATHETIC NERVES

Reid M R Tumors of the Autonomic Nervous

The author reviews the tunners of the authorium system which have here reported in the literature and classifies them as neuroplastomata ganglio neuromata and paragangliomata. The neoplastomata were found in the following locations appendix 35¢ carotid body 111 superseal meniular to small intestine 17 stomach 2 central nervous switch 18 cervical sympathetic chain 8 through the system 18 cervical sympathetic chain 8 through the chain 2 medicalineous sites; 18 cervical sympathetic chain 2 medicalineous sites; 18

Neuroblastomata are malignant tumors appar ently arising from the neuroblasts or undifferen trated cells from which the autonomic and chromaf fin systems develop. They occur most frequently in infancy or early childhood and their site of predilection is the suprarenal gland. As a rule the primary growth is small. Metastases may be formed in the liver lungs and lymph glands. The larger tumors and metastases are nodular masses of rather firm consistency. On aection, their cut sur face is a glistening white with streaks of color due to local hamorrhagic degeneration Microscopically they are alveolar in type and their characteristic cell are usually arranged rosette fashion about a central mass of fibers. Metastasis seems to occur most frequently by way of the lymph stream. The diagnosis is difficult without bions

Guglionestomata are benign tumors arising from ganglione elements of the autonome nervous system. They occur most frequently in female adults usually on the left side and most commonly in the central nervous system and its membranes and the great sympathetic chains. They vary from the size of a heast gg to that of a child's head and grossly resemble fibromata. Microscopically they are reticular. The interstities contain mediullated and non mediulated nerve fibers interingied with multipolar ganglion cells. Except in the very tare mistances of malignant degeneration the symptoms are caused merely by the mechanical difficulties due to the size of the growth.

Paraganglomata are henge tumors aroung from chormafin tissue. They susually occur in adults and are found most frequently in the carotid gland and the uppendix Grossly they are nodular and of firm consistency and even tetture. The cut surface varies from tellow to red. Microscopically, they are alveolar and composed of polyhedral granular cells arranged in compact groups and surrounded by hyperplastic capillary endothelium. The symptoms caused by them are usually due to mechanical

The article is concluded with various tabulations of the author's case collections and a comprehensive bibliography

I BIC OLDBERG M.D.

Muller G P End Results of Periarterial Sympathectomy in Surg 1928 lxxxv ii 474

Muller believes that some of the failures of periatricial sympathectomy may be attributed to the faulty selection of cases and that the operation will prove of particular value in the treatment of re Iractory ulcers of the extremities especially those due to trophic disturbances.

LLO M DAMBON MD

SURGERY OF THE CHEST

TRACHEA LUNGS AND PLEURA

Problems in Bronchescopy and Œsophagoscopy Inn Ot ! Ahtno! & Laryneal 1028 XXXXII 087

Bronchoscopy is indicated for diagnosis in cases with signs and a history pointing to the presence in a bronchus of a foreign body that does not show in the 1 ray picture and in cases of lung abscess gangrene

of the lung and bronchiectasis Immediate bronchoscopy is necessary chiefly when

an inhaled foreign body causes considerable respiratory embarrassment because of its large size or its shape or because it comes up against the undersur face of the glottis in such a way as completely to cut off the supply of air In the ordinary case in which a foreign body has been inhaled careful and complete preparation for operation is usually possible. An inhaled peanut must be removed promptly as it causes a severe reaction

Each type of bronchoscope and esophagoscope has certain advantages The Bruening instruments can be used in smaller tracher and bronchi than the Jackson instruments. On the other hand the Bruening instruments must be used largely by the sense of touch while the Jackson instruments can be u ed under visual control The Jackson instruments require smaller and neaker forceps than the Bruen ing instruments When it is necessary to cut the foreign body before removing it the Bruening in struments are to be preferred. A much larger foreign

body may be removed through the Bruening instru ment than through the Jackson instrument For the beginner lower bronchoscopy is safer than upper bronchoscopy The danger from a tracheot omy is not great if ordinary surgical skill is used. If the foreign body is very rough and irregular tracke otomy should precede the bronchoscopy

If general anæsthesia is necessary it should be in duced with ether. The anæsthesia induced by mi trous oxide does not last long enough Chloroform is too dangerous. In the cases of adults cocain may often be employed to advantage if the patient is of the phlegmatic type Solutions as strong as 25 per cent may be necessary

When the neck cannot be extended trackeotomy can be done and the foreign body removed by lower bronchoscopy if the head can be rotate I and the foreign body is in the traches or a bronchus MERLE R HOON M D

Weidtein I F and Iterrmann L G Abscess of the Lung Experimental Studies in Chronicity

In experiments on dogs the authors found that lung abscesses could be produced at will by freeing

small artificial septic emboli into the venous circle tion but they usually healed by cicatrization with a three weeks

In a second series of experiments they attempted by producing a chronic cough to cause abscesses more nearly simulating the chronic abscesses occuring in man The cough was caused by subjecting the animal to inhalations of diluted free chlonne gis for a few minutes three times a day It was found that by this method the duration of the absent could be prolonged for a period of four or five week but no longer

In another series of experiments anaerobic organisms were used. When these were introduced by t t venous route abscesses of a greater degree of chmb icity could be produced but when they were introduced by the intratracheal route abscesses nereptoduced only when the entire bronchus was occluded These experiments seem to indicate that the preence of certain anaerobic organi ms is of importance in the production of chronic pulmonary abscess Whether these infectious sgents reach the lung is man by way of the air passages or the blood stream is still unknown Under experimental conditions however maufflated material must block the passage completely as well as injure the bronchi before an abscess is produced. This fact coupled with the observation that the arsenical drugs which kill spirochates will rarely if ever cure pulmonary abscess in man even though they affectate the cor dition suggests that the anaerobic organi ms 1 c probably secondary invaders

Undoubtedly the bronchiectatic type of bees has its beginning in the bronchial tree. This is the type of lesion that follows the inhalation of a foreign body or grossly contaminated material which be comes lodged and occludes the finer bronchial rame fications It responds readily to treatment when the foreign body or obstructing material is removed a 1 the cavity is aspirated endoscopically

RALPS B BETTHE MD

Clerf L H Lung Abscess Following Tonsillor tomy from the Standpoint of the Broncho

scopist 4tl at c Jf J 1928 XXX 911 Clerf emphasizes that because of the increasing number of reported cases of lung abscess complicat ing tonsillectomy it behooves every larynoolog

to study he patients carefully before operation and to employ all possible prophylactic measure Whenever pulmonary symptoms develop follow ing tonside tomy the possibility of impending he

absce s should be immediately con idere pitient subjected to lonsillectomy should be dis charged fmm observation until after three or i a weeks

in all cases of postoperative lung complications

he examination should include an x ray study one of the most valuable methods of treating abscess of the lung following tonsillectomy is bronrhoscopic aspiration carried out by an experienced fronthoscopist on the advice of the internist roent

pronchoscopist on the advice of the internist roem genologist and surgeon and in conjunction with such medical measures as may be recommended by the internist In conclusion Clerf states that no patient with an

incipient abscess of the lung has had the full benefits afforded by medical and surgical skill it bronchos copy was not considered as a possible method of treatment in his case RAIPH B BETTMAN M D

Schall LeR A Primary Carcinoma of the Bronehi

Ann Olol Rhinol & Laryngol 1928 xxvvv 762

Primary carcinoma of the lung is by no means as

rare as the textbooks suggest and it appears to be becoming more common. Whether the increase in its incidence is a true increase or due to more accurate diagnosis is problematical but the theory that the pulmonary trauma suffered during the influenza epidemic of 1978-1919 is responsible for an actual increase appears reasonable.

The tumors have three sites of origin (1) the bronchial mucous membrane (2) the bronchial mucous glands and (3) the alveolar epithelium. Those arising from the bronchial epithelium are either squamous or cylindrical celled tumors whereas those arising from the mucous elands are mainly

adenomatous in structure

Primary carcinoma of the bronchi is more common in males than in females and usually develops after the fortieth year of age. The symptoms are a cough dysnora pain hamoptysis fever and cacheria which vary in degree and combination seconding to the size and location of the growth. The most con

stant symptom is cough

In the differential diagnosis tuberculosis put
monary abscess gangrene cyst foreign body and
ancurism must be considered. The condition is prob-

ably confused most frequently with tuberculosis Childs states that in the roentgen examination tuberculous masses are usually found in the posterior mediastinum while cancerous nodules are discovered

more frequently in the anterior mediastinum. Car man found that erroneously diagnosed cases fall into two groups. (1) those in which the lesson is mataken for a mediastinal timor bronchopneumonia gain grene tuberculosis cyst or empvema and (2) those in which the pulmonary tumor is latent and symp toms of extrathoracic metastases predominate. The diagnosis rests mainly on the findings of broncho scopic examination. The bronchoscopic picture is that of bronchial occlusion either by a tumor mass outcropping or stenois due to indiffration of the homochial wall such smooth bronchial mucor the

Sex cases of primary carcinoma of the bronchus are reported

The author draws the following conclusions
I Primary carcinoma of the bronchus is not an

extremely uncommon disease
2 Patients with obscure chest conditions should have the benefit of the close co-operation of the thorace surgeon the internsit the roenteenologist

and the bronchoscopist

3 Bronchoscopy is the best means of establishing
an early diagnosis of bronchial malignancy

MERLE R HOOV M D

Smith R E The Etiology of Primary Lung Car

cinoma An Experimental and Clinical Investigation J Cancer Research 1928 xii 134

A study of forty eight cases of primary human carcinoma proved by autopsy failed to reveal a definite etiological factor. In the author's experimen tal investigations one group of mice were exposed to coal tar fumes others were exposed to fumes from the exhaust of a Ford engine and others were painted with gasoline over a period of five months Carcinoma of the lungs did not occur in those ex posed to the coal tar fumes but developed in one (3 8 per cent) of those exposed to the exhaust gas and in one (3 4 per cent) of those that were painted with gasoline This incidence was not markedly greater than the spontaneous occurrence of lung carcinoma Neither the author's experiments nor his clinical observations gave any support to the theory that carcinoma of the lung is caused by ex posure to the fumes of coal tar or gasoline

NATUAN N CROHN M D

SURGERY OF THE ARDOMEN

ABDOMINAL WALL AND PERITONEUM

Koontz A R New Principles and Procedures in Hernia Repair Texas Stat J W 1925 rris 2.0

In experiments conducted at the Surgical Hunte man Laboratory of the Johns Hopkins Medical School the occurrence of union between muscle and fascia or ligaments was demonstrated by gross and microscopic findings Further investigations re vealed that if the muscle was stripped clean of all areolar tissue or if the edge of the muscle was cut the union was much firmer

The studies of Gallie and LeMesuner with regard to the use of living sutures and of Ageotte with regard to dead grafts stimulated wider investigations It was found that relatively large pieces of fascia which had been preserved in 70 per cent alcohol could be transplanted into living tissue The dead cells of the graft were removed by wander ing cells of the host. Tibroblists from the host grew into the persisting connective tissue framework of the graft a new circulation was established and in a short time it was impossible to distinguish the deal graft

Applying the principles worked out in animal surgery the author has operated upon twents six herniæ in man using alcohol preserved strips of fascia lata of the ox as suture material and the technique advocated by Gallie and LeMesuner for

living sutures

I teserved fascial strips are not a suture material in the ordinary sense of the word. They are not absorbed as are ordinary absorbable sutures nor do they lie as an mort foreign body. The material be comes an integral part of the organism into which it is implanted WILLIAM I SHACKLETON M D

Waugh G E The Clinical Aspect of Congenital Mesenteric Malformation in Children Proc Roy Soc Med 1 and 1028 axs 17 7

Concental malformations of the mesentery are definite morbid entities of a chronic type which may be recognized before operation by careful clinical and roentgenological investigation

The syndromes to which they give ri e do not resemble those of any of the well known abdominal surgical diseases nor any of the purely functional disabilities to which the term indigestion

applied The most important physical sign i the empti ness of the right iliac fossa associated sometimes with an asymmetrical enlargement of the abdomen These signs follow of necessity on the left side masmuch as the whole segment of the embryonic midgut is involved in a failure of rotation and fixe tion after reduction from the umbilical sae

Operation may effect a cure and when it I hate do so may serve to reveal more accurately the char acter of the malformation so that a rational con e of treatment may be adopted

CEORGE A CRIEFT M'b

GASTRO INTESTINAL TRACT

Fredet P and Lesné E Hypertrophic Polone Stenosis in Infants The Anatomical Result of Three Months Previously (Stenose bypent phy que du pytore chez les nournssons. Ré ultat ant tomique sur un sujet traité et guen d pu tre mo s) Bull el me i Soc not de chir 10 % liv 2050

In the case reported typical symptoms of p lore stenosis developed on the thirtieth day slier the infant's birth and during the following eighteen days the child rapidly lost weight A roentgenogram showed almost complete obstruction at the priors only a trace of the barrum meal passing in inenty four hours

At operation a very vascular firm olive-shaped tumor of the pylorus was found and incised in two places to the submucosa The patient recovered but three months later died of influenza and broncho ppeumonla

In the gross specimen removed at sutopsy no trace of the two longitudinal incisions could be sen The pylorus was found slightly thickened but other

wise appeared perfectly normal

Microscopic examination revealed two fine scar at the sites of the incisions. In numerous places however the scars were interrupted by the mus cularis the continuity of which had been re-estab is hed

The rapid healing of the pylorus raises the question as to the mechanism by which the Frede operation can cure the stenosis permanently. It has long been recognized that the stenosis is physiologic cal as well as anatomical According to a plautible explanation recently advanced by Bard the control tions of the stomach are sufficient to overcome the pyloric sphincter under normal conditions but when there is hypertrophy a degree of retention occurs which tends to become progressively more severe Therefore section of the sphincter acts by permitting re education of the stomach the re establishment of the co ordination between the pylonic and the gastric phases of the motor function

In the discussion of this report OMBREDA advised opening the abdomen by a subcostal incide made directly over the liver as this approach es tirely eliminates the possibility of evi ceration dur ing or after the operation

ALBERT I DE GROST VI D

Martin F and Burden V G Pyloric Achalasta and Peptic Ulcer (un): g 1928 Ixxxviii 565

I vloric achalasia is denned by ffurst as fadure of the pyloric sphincter to relax In the authors opinion spasm of the pyloric sphincter is responsible for chronic dyspensis and ulcer symptoms in the absence of a gross ulcer and is a contributing factor in the development and chronicity of peptic ulcer Pyloric achalasia the failure of inhihition whereby the sphincter remains closed but not spastic is the result of a disturbance of the correlation between sympathetic and parasympathetic control An im portant function of the sphincter of the pylorus is the control of duodenal regurgitation an important phenomenon occurring during both digestive and interdigestive phases. The hydrochloric acid con tent of normal gastric juice is o 5 per cent when the tunce to freshly formed and for purposes of digestion is reduced to from o is to o per cent

Ill surgical procedures used in the treatment of pepte uler aim to reduce the acidits of the stom ach I attail resection of the stomach leffects the most deceded reduction in the gastne attitut and maintains low and values because it removes three requirements of the duodenal contents. Various methods of pilorophasty have been practiced with varing degree of success Judd prefers existent of the duodenal contents. Armous methods of pilorophasty have been practiced with varing degree of success Judd prefers existent of the antenno after the pilorophasty of the antenno after the pilorophasty and completed as a gastroduodensorm. Favr and Stomaker have the content of the submitted as a gastroduodensorm. Favr and Stomaker have favr studious onceine of the submitted as a favr and the submitted as a submitted as

The authors advocate the submucous removal of the anterior half of the sphincter without opening of the mucosa The sphincter is readdy identified by the transverse veins Tapping the pylorus causes the sphincter to contract The years above and below are ligated by catgut sutures on a curved needle which are left long for traction sutures. A transverse curved incision down to the mucosa is made with a sharp scalpel on the pastru side and also on the duodenal side of the sphincter The sphincter is then cut across at its lower border peeled from the mucosa and cut across at the upper border The defect on the surface of the bowel is clo ed by a continuous suture of fine chromic cat gut I xperimental operations on the dog have shown that this operation does not cause narrowing of the bowel at the site of the pylorus

Jens W Acres M D

Walton A J Gardnoma of the Stomach I 1 1

The author does not accept the their hat cancer is increasing. During the past fifters vers he has operated upon 220 cases of gastric cancer. During the same [eriod 1 obo patients were operated upon for chronic simple id er. In all instruces the diag ness was omfirmed by mery copic examination or visual in piction. A striking contrast between the number of cancer and ulicer cie so operated upon

yearly is shown graphically. Whereas the number of cases of carcinoma remained nearly constant a steady increase in the cases of ulcer was noted from year to year. In the cases reported during 1927, the ratio of ulcer to cancer was a 121.

The relationship of cancer to ulcer of the body of the stomach is discussed. It is the latter type fesson that is prone to become malignant. Walton states that in his present practice ulcers of the lesser curvature are a times as frequent as in 10.7. He is of the control of t

With regard to the relationship of the conditions to see the author states that whereas both cancers and ulcers are much more common in males than in femiles the difference is more evident in ulcers than in express.

Walton has revewed the literature on the results of operation in gastic cancer. In a series of 65; cases of revection reported by Mano 38 6 per cent of the patients survived three y cars or more and 26 5 per cent survived five y cars or more and 26 5 per cent survived five y cars or more and 26 5 per cent survived five v cars or more in contrast to hese figures Gibson reports that of 70 patients operated upon for gastic cancer only 1 was alike vears. Walton states that his results agree with those of Gibbon He is of the opinion that recurrence those of Gibbon He is of the opinion that recurrence surgeous matching to subject the patient to operation can't enough the patient to operation can't enough the first operation of the patient to operation with the patient to operation.

in improved diagnosis lies the only hope of improving the results. When seen by the surgeon only one third of gastric cancers are operable. Cases of gastric cancer are often treated medically for long periods of time in the belief that the lesson is an ulcer Moreover many patients treat themselves especially the great value of artilight. Walton points out the great value of artilight walton points out the great value of surgeon of all periods over footward to the control of the proposed of the period value of surgeon of period tent of spepsia.

Horsley J S Cancer of the Stomach in Patients Over Seventy Years of Age 1nn 5 org 1928 1xxxvm 554

During the past two and one half years the author performed partial gastrectom, for cancer of the stomach in five patients over sevent years of age fle used a modification of the fillifuelt 10 operation approximating the upper stump of the stomach to the end of the duodenium after flaring open the duodenium by an incision about 1, in long in the natient wall 4 o 5 per cent solution of novocain we sused for subcutaineous infiltration of the abdomi all wall and for injection retroperstocally, about the head of the pancreas and to the left toward the verte brize above.

Of the five patients all men the oldest was seven ty seven years an! the voungest seventy vear of age. The average age was seventy three vears. The time require! for the of cration varied from two to

126

two and one half hours None of the patients left the table with a pulse rate over 80 In four cases the cancer was very far advanced. In two resection of the transverse colon was necessary. In two cases in which the colon was anastomosed end to end a facal fistula developed Two patients gave a history sug gestive of benign ulcer of the stomach. In the three other cases the cancer developed without previous

gastric distress The first patient survived operation for nearly two years and died from a recurrence The second developed postoperative pneumonia but recovered and survived for two years and three months finally succumbing to a recurrence of the cancer The third patient lived eight and one half months after the operation and died from the effects of an intercur

rent disease In the case of the fourth patient a mao of seventy years a very extensive carcinoma was resected with a portion of the transverse cofon and the round figa ment of the liver After the operation a freaf fistula developed but eventually closed Microscopic sec tions revealed an adenocarcinoma of mild malig nancy A recurrence developed within a year after the operation The fifth patient a man of seventy five years was subjected to gastrectomy for a very extensive cancer involving the lymph nodes of both the lesser and the greater curvatures of the stomach Six days after the operation the wound was opened and the transverse colon found to he gangrenous for about 5 in in the mid portion Resection followed by end to end anastomosis was therefore done. The na tient died a few days fater with a colonic fistula

The author helieves that while the results cannot be regarded as brilliant the extensive operative pro cedure was justified by the several months of fife accorded the four nationts who survived

John W Nozem M D

Eberts E M Carcinoma and Ulcer of the Stom nch Canadian M 4ss J 1928 xit 145

During the past five years many important articles have been written on the relationship of cancer to peptic ulcer but the opinions expressed have been very divergent. Three questions are taken up

1 Can a gastric cancer he converted into a gas tric ulcer? A case cited by Thalheimer and Wilen sky in which the malignant gastric tissue had been coropletely digested away though there were muf tiple metastases apparently answers this question in the affirmative

What percentage of cancers of the stomach originate in peptic ulcer? Wilson and MacCarty say as high as 71 per cent whereas Eberts estimates

from 5 to 10 per cent What percentage of gastric ulcers become can cerous? MacCarty reports that 68 per cent of the gastric ulcers in his series of cases were associated with caucer According to Ewing the incidence of cancerous change in gastric ulcer is about 3 per cent In Eusterman's opinion every ulcer is potentially a cancer

The author believes that in every case of cancer of the stomach even if it appears inoperable in physical examination an exploration should be done and that in the absence of infiltration of the pin creas anyofvement of the transverse colon and metastasis in the fiver resection should be unde taken

Infiltration of the abdominal wall with a local anasthetic for the incision and after the shdomen has been opened infiltration of the root of the transverse mesocolon and gastrohepatic omenium along the lesser curvature at the juncture of the fundus with the resophagus or the use of splanchax anarthesia will render it possible to perform reset tion without discomfort to the patient and without the risk of pneumonia from prolonged anasthesis. PAUL W SWEET VD

Moise T S : Gastro Enterestomy with a Trans verse Jejunal Incision Preliminary Clinical Report Surg Gynec & Obst 1928 zivi \$83

Morse states that the mechanics of the usual side to side gastrojejunostomy is faulty because of the division of the circular muscle fibers by thelongited naf jejunal incision. When the stomach is stretched hy large amounts of food the food may be fored through the patent pylorus and re-enter the stomsch hy way of the proximal loop This circulation of food is due to the valve like action of the ana tomosi. When the wall of the stomach is stretched so that the edges of the opening into the jejunum are separated the intestinal will becomes flattened over the stoms and the openings into the intestine become merely narrow sfits The opening on the proximal side of the stoma permits food to circulate by way of the p' forus and duodenum and return to the stomach but both slits offer a valve like hindrance to the egress of food from the stomach by way of the stoma The more the gastric wall is stretched the more effective the valves become Moreover the division of the circular musele fibers at the stoma in the usual side to side gastrojejunostomy makes it impossible for peristalsis to be effective at the angulation in the jejunum at the distal end of the anastomosis Hence the force that normally pushes the food along and straightens the kink i lacking

Various modifications have been sugrested to aword these defects in side to-side gastrojejunoslomy The author recommends an operation in which the jejunal incision is made transversely

In the technique described the stomach trans verse colon and omentum are turned upward to ex pose the under surface of the transverse mesocolon as in the usual procedure and the duodenojejuns juncture is located The posterior surface of the storoach is then exposed by an opening made through an avascular portion of the transverse mesocolon The stomach is lelivered and the part required for

the anastomosis is located. At either end of the proposed gastric incision a guide suture is inserted The line of the gastric incision is selected as in the

standard procedures In the cases reported the open

mg was made so that the stoma would he vertically or extend from above downward and to the right at an angle of 45 degrees with the horizontal The line selected is such that there will be no rotation or kinking of the jejunum proumal to the anastomosis The opening in the mesocolon is closed by the suturing of

the cut edges to the stomach wall The jejunum is lifted into position for a short loop operation A point is selected hetween adjacent straight intestinal arteries and two small crushing clamps are applied side by side extending across from two thirds to three quarters of the diameter of the intestine A margin of 14 in is left at the mesen tenc border After an incision is made between the clamps the handles of the clamps are separated and the direction of the original transverse incision is changed to run parallel with the long axis of the intestine. This portion of the jejunum is approve mated to the stomach along the line of the proposed gastric incision so that the distal loop will lie near the greater curvature A posterior row of interrupted silk sutures is inserted Care is taken that the middle suture is accurately placed opposite the end of the

onginal jejunal incision

An incision is then made into the stomach of the
same length as the jejunal stoma (approximately 2
in) The bleeding is controlled with ligatures of fine
plain catgut. The crushing clamps are removed and
the crit hed edges of the jejunum are excised. The
anastomous may be completed according to the oper

ator a preference. In the usual procedure suturing with No ochrome catgut is begin in the middle of the anatomous posteniothy and carried in either of nection as a continuous through and through locked stick. This suture is continuous a continuous as continuous as continuous as continuous as continuous as continuous inverting matterns stirch until the soft of the continuous through the continuous through the continuous through the continuous and the inversion on the journal stude is minimal. The antenno layer is re-inforced with interrupted matters sutures of fine black sits to complete the anas

On replacement of the stomach and transverse colou the distal jejunal loop gravitates downward at right angles to the greater curvature in the optimum mechanical position. The provinal and distal open ings are each about the size of the cross section of the jejunum.

tomosus

The operation of gastro enterostomy with a trans verse journal mession according to the technique de scribed has been performed in twenty three cases including seventeen in which it was performed as the procedure of choice and six in which it was done as a Juliative measure for the relief of pyloric obstruction in malignant disea e

In the entire series of cases the immediate convalencence was surprisingly uneventful. The functional efficiency of the anastomosas was studied by rutine fluores of extrinuations of the stomach startly before the patients were discharged from the bospital and at later intervals between two and nine months after the operation. In some of the cases no

six hour gastric residue was noted in the immediate postoperative roentgenograms. The occurrence of the so called vicious circle was largely prevented Morris H Karly M D

Balfour D C Recurring Ulcers Following Partial Gastrectomy Ann Surg 1928 Ixxvvii 548

The author reports a study of twenty eight cases mitch Mayo Clime in which recurring their following partial gastrectomy was found at subsequent operation. In fourteen cases the uter followed resection for gastine uter in eight resection for persisting or activated duodenal uter following other operations and in six resection for gastrojejunal uterations. Classifying the lesions according to operation there followed resection of the Billroth 1 type of the control of the posterior and the state of the posterior and the state of the posterior and to side type and two resection completed as an anterior end to side satisfaction.

The cause of these recurrences cannot be established sume recurrence may take place when every known factor has been eliminated. The more important factors are hyperacidity operative frauma and technical errors (such as the injudicious use of clamps poor approximation of the suture lines and madequate drainage) gross indiscretions following operation (excessive smoking the ingestion of indigestible foods prolonged nervous tension and marked precupative in meaning the ingestion of indiction.

The symptoms of recurring ulcer parallel those of primary ulcer in one important respect the pain regardless of its situation radiation or seventy, is related to the ingestion of food. The effect of food is a fundamental point in the clinical diagnosis of recurring ulcer.

In the series of cases reviewed the chief complications of recurring ulcer following partial gastrectoms were perforation harmorrhage and ob truction

Fluoroscopic examination is of great aid in establishing the diagnosis

The treatment of recurring uleer following partial gastrectomy is usually surgical. The pre operative observation and preparation of the patient are exceedingly important because the difficulties and risks of operation are definitely lessened by rest in bed a bland diet and the administration of large quantities of find

Certan general pracuples should be observed in the surgeal treatment. It is unway to attempt a proposed to attempt a program that was used affer the same segment of papurum that was used affer the program that was used affer the program to a surgear that the program that was used affer the program to a surgear that the program that was used affer the program to a surgear that the program of the program to the program of th

The selection of the best type of operation a gov erned by the type of the primary resection the site of the ulcer the extent of the milammators process and involvement of other structures and the pa tient's general condition 1 or recurrences following a Billroth I type of resection posterior gastro enter ostomy should have first consideration. For recur rences following segmental resections a loly a opera tion or modification of the operation is advisable. In the treatment indicated for recurrences following a Billroth II or a posterior I olva operation the anasto most is first mobilized the mesocolon dissected free the site of the ulter identified and a segment of the stomach the entire mastomosis and enough of the jejunum to remove all obviously inflamed tissue are re ected

The results of operation in these cases of returners under after partial state-tection show that the discase is very intractable. It should be emphasized that privite (asserted only a ryman operation for fourier peptic ulcers does not afford shoulder assure that the results now and the contraction will not even that that if such a region of the contraction of the court and that if such a region procedures are often exceedingly great and the results now too satisfactors.

Owings J C McIntosh C A Stone II B and Weinberg J A Intra Intestinal I ressure in Obstruction Irrh Surg 1928 von 50

In studies of the relationship of inits intestinal pressure to intestinal premetability in obstruction the authors first measured the normal intragastine and intra netterinal fressure respectively in either used dogs. They found as Sherrington had done owns even previously that the former is from a to 5 cm of water and the latter at a point a cern below they plorus from a to 4 cm of water. As a result of their observation a five pare of the punner three and the latter at a point age as the part of the pare of the parent previous pressure exists normally, in the absolute pressure exists normally, in the absolute pressure exists normally, in the absolute pressure exists normally in the absolute pressure and the pressure exists normally in the absolute pressure exists normally in the absolute pressure and the pressure exists normally in the absolute pressure exists normally in the absolute pressure and the pressure exists normally in the absolute pressure exists normally in the absolute pressure exists normally in the absolute exists and the pressure exists normally in the absolute exists an exist of the pressure exists normally and the pressure exists an exist of the pressure exists and the pressure exists and the pressure exists an exist of the pressure exists and the pressure exists an exist of the pressure exists and the pressure exists and the pressure exists

Observations were made on eighteen small dogs in which simple intestinal obstructions were produced at various levels and in four digs in which intestinal

loops were isolated

It was found that in sumple obstruction the intra intestinal pressure is maintained at a level of from 6 to 8 cm of sater about twice that of the normal maximum (from 2 to 4 cm of water) and that while the bowel is active the pressure rises to ten or filteen times the normal The type and magnitude of mites tinal motilit in obstruction may be roughly divided into three periods. In the first period—the first twenty four hours following the obstruction-there is little change from the normal. The second perio ! shows a rise in the basic pressure marked peri talsis and a marked increase in the intra intestinal pres ure generally in the third or terminal phase a farling pressure and a decrease in peristritic autivity are noted A period of violent peristal is comes on early and occurs more frequently in high abstruction than in low ob truction. In an isolated lox p of intestinthe pressure reached 70 cm of water which was

much greater than the intra intestinal pressure in simple intestinal obstruction

Jone et Mooree MD

Branch J R B Intestinal Tuberculosis Causing
Obstruction 4rch Surg 1028 xvu 440

The author reports his clinical experience with eight cases of intestinal tuberculosis of the hyrer plastic stenosing type The condition involved the terminal ileum the cacum and the ascending colon and in a lew cases also the appendix. In two in stances there was an associated tuberculous petito nitis In one case this was in the ascitic stage and in the other in the early plastic stage. In three in stances there was evidence of previous pulmonary tuberculosis but in only one of these cases was the process active Grossly there was a generalized thickening of the entire wall of the bowel with stenosis caused by old healed scar tusue. In several eases the strictured area was 5 mm or less in diam eter. In most of the cases small healed or uphraird ulcers were lound. Microscopic examination revealed tubercles and bacult in all except one case Glandular involvement was present in some cases but was extensive in only one instance

The two conditions most likely to be confused with byperplastic occlusive lesions of the recrum at appendicates and malignancy. The authors patient were 4th between twents fine and thirty sear of age. The chief compliant is an olicity recurrent passors. The chief compliant is an olicity recurrent passors from three to each thour and accompanied by the gurghog of gas in the bowels nauses and vomiting in some cases there may a history of constitution and in others a history of diarrhera. The attacks of pass tended to become more frequent and to list.

Physical examination usually revealed a localized moderate tendenies with muscle spain or resistance in the right lower quadrant of the abdomen and in every instance a persistent mass in the excal region. The temperature was normal unless complications were present. The leucocy te count was normal except in two cases.

In every case except one the roentigen ray demostrated the signs of an ulcerative or hyperplastic lesson nameh (4) a filling defect—non filling tires ularity hadrowing and constriction (3) peseral colonic hypermotitity and (3) deal stars. The greatest amount of information was obtained from examination following the administration of both a barum meal and a barum enema.

The operation of choice is resection of the cased portion of the lovel with enterocolostom. This was done in six cases with only one death was price technique based on the method of Scarff and adapted to end to side anistomesis was used important adjuncts to the treatment were a promip prophilaria enterovious by means of a ritheter the limiting of fluids by month and return for our five days and the liberal indiministration of mortulation of the days and the liberal indiministration of mortulation of the days and the liberal indiministration of mortulation of the days and the liberal indiministration of mortulation of the days and the liberal indiministration of mortulation of the days and the liberal indiministration of mortulation of the days and the liberal indiministration of mortulations.

The end results are not given that five of the eight patients are sufficiently well to carry on their usual Ious It Wouses M D vocations

Cinsburg L and Mein F Late Intestinal Ste nosis Following Strangulated Hernia 1 6 1028 JAXXVIII 204

The authors state that following the replacement of badly devitalized intestine in the abdominal cav ity symptoms of obstruction may develop after a varying free interval but the obstruction remains incomplete for a long time. The symptoms are caused by fibrotic intestinal stenosis due to the thrombosis of small mesenteric and intramoral ves sels resulting from mucosal necrosts and infection by organisms from the lumen of the bowel treatment indicated is an early short circuiting en tere anastomosis or bowel resection. Five cases are reported in detail PAUL C. ROBITSHER M D.

Dragsredt C A Experimental Studies in Intesti nal Obstruction and Intestinal Toramias North est Med roas xxvii 400

Dragstedt discusses obstruction at various levels of the gastro intestinal tract Complete obstruction or removal of the esophagus and stomach are not incompatible with life if provision is made for artificial feeding. The duodenum jejunum ileum and colon have also been successfully removed

The intestinal accretion at the various levels is Loss of gastric ruice bile or succus entencus does not seem to have serious conse quences but in dogs loss of pancreatic juice vauses death in from six to eight days with anoregia gas tric irritability vomiting and asthenia It i con cluded that continued loss of certain secretions or failure to resorb them may account for many s) mptoms arising from obstruction at various levels

Acute obstruction in the duodenum or ileum causes severe symptoms. The blood chemistry findings are characteristic i e decreased chlorides a late increase in the non protein and urea nitrogen and an increase in the carbon dioxide combining power of the plasma

Isolated loops of bowel which are shunted by end to end anastomoses produce symptoms similar to those ol obstruction at their respective levels If these loops are aspirated drained or removed earl rosymptoms develop Fluid from these loops injected intraperitoneally into healthy dogs causes characteristic symptoms of acute obstruction. This seems to prove that the symptoms are caused by toxic pro facts absorbed from the area of obstruction

The author points out also that dehydration and loss of chlorides are important factors whether they are due to comiting failure of resorption starva tion or toxxmia Loss of intestinal secretions is harmful because such secretions have a definite Secretagogue action Excessive secretion favors di tention and lowers the resistance of the intesti nal mucosa to toxic material in the lumen of the bowel IALL W GREFLEY M D

Callagher W J The Effects of Injectious of Acid and Trauma on Jejunal Transplants to the Stomach 1rd Sur 50 S x 11 270

In studies of jejunal transplants in animals it was found that sour tissue with nutritional disturbance was present in all cases of chronic ulcer. Ulcers occurred in both anterior and posterior transplants The mucosal ulceration was caused by the operative trauma and the decrease in the blood supply to the ends of the transplants

An artificial hyperacidity produced by injections of various concentrations of hydrochloric acid failed to increase the occurrence of chronic ulcer

WILLIAM E. SHACKLETON M D.

Allen N M Postoperative Jejunal Ulcers

J Surg 10 8 128

The cause of ulcers near the auture lines after eastro enterostomy is unknown Imong possible causes suggested are the use of clamps and non absorbable suture material a stoma which is too small or not well placed a hæmatoma in the suture hae which becomes injected focal injection and operation performed in the absence of a pathological leston

The ulcers may appear shortly after the gastro enterostomy or may not be found until many years later as in a case cited by Balfour in which they were first discovered fourteen years after the primary operation

Allen reports four cases which show the tendency of certain persons to develop ulcers regardless of the procedure earned out

The first was that of a man aged thirty neven year who was admitted to the hospital with a perforated duodenal ulcer The perforation was sutured Three years later the nationt was re admitted with ulcer symptoms and a posterior gastro enterestoms and appendectomy were done. Three years later he was admitted with a marginal ulcer. The gastro enter ostomy was then disconnected the stomach closed and an end to end anastomosis with the reiunum performed Six months later the patient returned with a new duodenal ulcer and a partial gastrectoms was done Seven weeks later he again had a marginal ulcer The was resected. A short time later the patient returned with a perforation. The perforation was closed but death occurred the same day

The second case was that of a man thirty two vears of age who was first treated for duodenal ulcer Excision of the ulcer and posterior gastro enter ostomy were done. Six years later the patient was re admitted to the hospital with a marginal ulcer on the jejunal side of the anastomosis The anastomosis was disconnected and the ulcer resected. Unevent ful recovery resulted

The third case was that of a patient who was subjected to a gastro enterostomy in 1919 an operation for marginal ulcer to 1920 and a partial gastrectoms in 1923 Later in 1923 he re entered the host stal with a marginal ulcer. The ulcer was resected and the anastomosis re established Recovery followed

Case 4 was another instance in which marginal ulcer developed after gastro enterostomy The ulcer was exci ed and the gistro enterostomy disconnected

From the e cases the author drive the following

conclusions

- 1 When marginal ulcer occurs the operation of choice is disconnection of the gastro-enterestomy resection of the ulcer and repair of the stomach and jejunum 2 It 1 not justifiable to sacrifice one half or two
- thirds of the stomach as a primary procedure when no assurance can be given that the ulter will not 3 Marginal ulcers occur just as frequently after partial gastrectoms as after gastro enterestomy
- McMurrich J P and Tisdall F F A Remark
 - able Heal Diverticulum 1sal Rec 1928 extry

I LDWARD BI HKOW M D

The nationt whose case is reported was a male infant thirteen months of age who developed a tumor like swelling in the right upper portion of the abdomen Later the swelling disappeared for a month and then returned permanently Black stools had been passed. Before an operation could be per formed the child developed pulmonary trouble and died

At autopsy a remarkable diverticulum of the ileum was found. It arose from the intestine 4c cm above the ileocarcal valve extended upward parallel with the mesenteric surface of the ileum and lay between the folds of the mesentery For 50 cm of its extent it was adherent to the wall of the ileum and for an extent of o cm it was free in the root of

the mesenter,

Grossly and microsconically it resembled the ileum in structure and its lumen was continuous with that of the ileum

Its origin on the mesenteric surface of the intes tine made its identification as a Meckel's divertiru

The author reviews several similar cases reported in the literature and discus es the embryological development of diverticula

I FEW LED BISHLOW M D

Barron M E Simple Non Specific Ulcer of the Colon Irch Surg 1918 xvu 355

The author reviews fifty cases of simple non sperific ulcer of the colon which have been reported in the literature and three cases of his own He be lieves that such ulcers are not stereoral in o sgin the result of constituation and that the chroos in flammatory reaction around them is secondary to the lesson. The etiology of this type of ulcer i as obscure as that of the common ulcers occurring in the stomach and duodenum

Of particular interest were the vessel changes in the region of the ulcer Two cases showed vascular lesions similar to those associated with endarteritis obliterans in the extremities but in neither of the e cases was there any associated lesion of the extremities The ulcers varied in size and position Their long axis was either parallel with or trans verse to the fong axis of the gut

The author believes that in all cases the original lesson at an acute ulceration and that the inflam matory thi kening corresponds in degree to the

chronicity of the ulcer

Marked constipation was present in twenty-one of the cases reviewed. In five it was not pres ent and in twenty seven it was not mentioned Melana occurred only occasionally Severe hamor rhage was rare The diagnosis is difficult to estabblish before perforation takes place Simple uker

of the colon has no pathognomonic signs The surgical treatment of simple ulrer vanes according to the character of the ulcer from simple puckering of the serosa over the base to resection

or a plastic operation

In conclusion the author states that simple ulter analogous to gastric or duodenal ulcer may occur in any part of the alimentary tract from the asophogus to the rectum Simple ulcer of the colon is not in frequently associated with gastric or duodenal uker It is a distinct lesson which probably occurs more frequently than is generally believed Its gross pathological picture may closely simulate that of ROSCOE R. GEARLY VD carcinoma

Chapman J F Polyposis of the Large Intestine Am J Ko nigenol 1928 xx 115

The author reports the case of a woman forty nine years of age who had suffered for five months from gnawing burning and hunger sensations in the upper part of the abdomen which were relieved hy food and soda She had also heen constituted but the constipation had not increased

On physical examination a tender mass was pri pated in the epigastrium and peristalsis par ing from right to left was visible Roentgen examina tion with the use of a barium mixture revealed a niche on the greater curvature a filling defect la the body of the stomach and a filling defect involv ing the entire transverse colon. Although there was marked narrowing the harium mixture rassed

through readdy A diagnosis of carcinoma of the transverse colon was made and resection was done. When the resected specimen was opened the wall was found to be r cm thick and the mucosa to be arranged in a polypoid manner The patient did not regain strength following the operation On re examination the stomach was found to be smaller with per sistence of the niche and filling delect. Death or curred ten months after the operation Autop showed the mucosa of the stomach to be covered by flat polyps The walls were more than a cm thick and an ulcer was present

In his brief discussion of this case the author states that the great extent of colon involved points away from the pos shility of cancer toward the probability of polyposis He regards the case with which the barium passed through the colon in spite of the clinical evidence of marked obstruction as a

significant finding in polyposis
Charles II HEACOCK M D

Hullstek II E Multiple Polyposis of the Colon Surg Gynec & Obst 1929 xlvii 345

The term polyposis of the colon has been used to designate a single polyp scattered polypis or a polyposis in which the entire large bowel including the rectum is involved by thousands of sessile

adenomatous tumors
Lockhart Mummery classifies the adenomata oc
curring in the boxel as follows (1) true multiple
adenomata (2) polyps associated with hyperplastic
tuberculosis (3) multiple polyps associated with an
old stricture of the colon and (4) a polypod condition resulting from ulcerative colitis. The classification of Erdman and Morror (2) the adult acquire
type and (2) the adolescent congenital dissemitanted type in almost all of the recorded cases of
multiple polyps of the colon the condution eventually
became multiple.

Polyposis of the colon appears to be hereditary as it can be traced through several generations. A large percentage of the members of families with the condition due to the members of families with the condition due to the members of families with the condition due to the members of families with the condition due to the members of the condition due to the conditi

tion due at an early age from cancer of the bowel. The operation inducated depends upon the presence or absence of malignancy the extent of the involvement the general condition and the technial ability and surgeal experience of the operator. In the congenital type of ease the usual extension in volvement renders complete removal of the polyposition.

bearing area a more or less heroie task. Hullsiek draws the following conclusions

There are two distinct types of polyposis the acquired and the concenital

2 Multiple polyposis is most common in child hood and youth. In the cases reviewed, the average age was thirty and nine-tenths years.

3 The symptoms are usually present for a long time before medical attention is sought

4 Males and females are affected with about equal frequency _ 5 The probability of malignant change is high

Of the cases reviewed malignancy resulted in 34 6
per cent

6 There is a definite hereditary tendency toward

the development of polyposis of the colon
7 The mortality is high—47 2 per cent under all

forms of treatment

8 The treatment has not yet been standar lized

Morris II harry WD

Larimore J W Roentgenology of the Colon 1ss J Roentgenol 1918 18 101

Roentgenological studies of the olon have been made largely to determine pathology of austomical changes. The author emphasizes the changes in physiology and attempts to correlate these with the climical findings.

Certain anatomical variations are of fundamental importance. The length of the colon should be determined as it affects the lotal time of stool movements the amount of absorption and the degree of inspissation. In 12 per cent of 562 colons studied the right hall was lengthened and the accum was in the pelvis. Redundancy of the sigmoid was found in 80 per cent.

Careal stass is frequently associated with careal redundancy especially if there is a concomitant loss of muscle tone and in children frequently it causes pain migraine and cyclic comiting. In the sigmoid the degree of motor impairment is directly proportional to the length of the redundant portion.

The change most frequently noted roentgenologi cally is decompensation of the muscle tone. In estimations of tonus the influence of the habitus must be considered. Contrary to common belief constipation due to a decrease of muscle tone (atonic constipation) is more frequent than constipation due to an increase of tone (spastic constipation) Re dundancy is always accompanied by impairment of tone probably because of over distention. How ever it may occur in all segments. For the restora tion of normal tone to the hypotonic muscle fibers a soft colonic content that will yield readily to muscular contraction is essential Hypertonicity must become greatly exaggerated before spastic con stination develops. Then laxatives will only increase the spasticity and constinution

Lack of vitamines leads early to colonic irritation. The irritation is manifested first by over secretion of mutus and hyperpensitaliss and later by degen erative changes. Chronie non infectious arthritis especially of the spine and pythits are constantly associated with abnormal function of the colon.

Roentgenology cannot demonstrate changes in the walls of the colon that make for increased permeability but it demonstrates the associated alterations of contour topography tonus and irritability CRANILS II HEACTOCK MD

Willis B C The Treatment of Perforative Appendicitis with Or without Abscess South W J 1923 xx1 622

Wills states that in fulminating cases of appendicitis given improper treatment there is a definite in rease in the mortality with the increase in the length of time elapsing between the appearance of the symptoms and operation

He reviews 382 cases of acute perforative appenhicits to which operation was performed in the period from July 1914 to August 1927. There were 36 deaths a mortality of 6 per cent. In all of these cases drainage was established. In the few cases in which the perforated appendix was securely walkel off by omentum the omentum was not detached but was amputated with the appendix and there was no drainage. In 56 of the 23 fatal cases from 1 to many purgatives had been given.

During the same period 1730 patients were or cr ated upon primarily for appendicitis with 32 deaths constraints of a Secreent. Sechandred in theents four up endectomies were secon lary

If the diagnosis of acute or perforative appen h eitis with or without abscess is made with reasonable certainty the author operates immediately one persistent fistula requiring operation for closure

has occurred Only 5 hernie have been noted. In almost all cases from 3 to 5 pieces of fenrose soft rubber are used for drainage. These are placed according to the site of the abscess or perforated appendix. If the pelvis has been invaded care is used to carry the drain to the bottom and leave it there on withdrawal of the carrier The drains are shortened after the third day and are removed by the seventh day

In 4 fatal cases a secondary enterestomy was performed. In the cases of a few patients who lived

a primary enterestomy was performed

- The postoperative treatment is described the complications are discussed and the cases in which an autopsy was performed are reported briefly. The main points in the article are summarized as follows Immediate operation should be done in all
- cases of acute perforative appendicitis regardless of the length of time that has elapsed since the begin ning of the attack
- The subcutaneous administration of saline solu tion should be begun at the time of operation and kept up until the water balance has been re estab
- lı hed 3 The appendix should not be removed in all abscess cases Surgical judgment should be the guide in those cases in which it is left
- 4 Proctoelysis should be used only in cases of very limited peritonitis
- g Fowler's position should be employed only in cases in which the pelvis has been insaded by the
- infection 6 I atients with abscess and peritoritis above the brim of the pelvis should be turned on the right side 7 I rovision for free drainage should be made in all rases CARL R STEINGS M D
- Smith R & Rare Complications of Acute Appen dicitle Beit M J 1918 it 330

Smith reports three cases of appendicitis with rare

complications The first was a case of acute appendicates complicated by a perforated duodenal ulcer As both the physical examination and history most closely suggested acute appendicitis the abdomen was opened in the right iliac fossa. The appendix showed an acute inflammation and was removed. However as the condition of the appendix did not acrount for the large amount of free turbed fluil found in the peritoneal cavity a second incision was made in the unper abdomen A small punched out perforation was then discovered on the superior surface of the duodenum just di tal to the pylorus. The perfora tion was clo ed by a pursestring suture and sutured over Drainage tubes were inserted through both incisions The patient made an uneventful recovery

I iter he returned for a gill blall roperate a which wa found necessary at the first operation but leem t tnadvisable at that time

The second case was one of acute gangrenous perforative appendicitis in the sac of a strangulate inguinal hernia. The patient was a man of seventy seven years of age. After operation for the hernia and appendicates signs of intestinal obstruction de veloped and at a second operation a hand constnit ing the large bowel was divided and a excostomy was done. Exacuations then took place by rectum

but patient failed rapidly and died

The third case was that of a man twenty five years of age who had been operated upon two years previously for appendiceal abscess. The abscess was drained but the appendix was not removed A ventral herma developed in the operative scar it operation the hernia was found to contain a perio rated appendix buried in omentum. The appendix was removed and the hernia repaired Recovery was uneventiul I I'DWARD BISHAOW MID

LIVER GALL BLADDER PANCREAS AND SPLEEN

Higgins G M and Murphy G T The Phagoeytic Cells (von Kupffer) In the Liver of Com mon Laboratory Animals Ingl Ret 19 9 al

Since it has been shown that the reticulo endo thehal system with its manifold subdivisions i inti mately related to both physiological and pathologi cal processes at becomes increasingly important that complete data be compiled concerning the origin lunction and ultimate disposition of the relis com Immediate interest in the pri ing this system reticulo-endothehal system is essentially restricted to the liver in which the stellate cells originally described by you Kupffer constitute a structure who e

function at once defensive and metabolic This study of the stellate cells was approa hed with definite objectives. Although many descriptions of the cells are available there is no adequate comparative study of them as they occur within the group of vertebrate animals Nathan (1008) studie i the comparative anatomy of the von kupfler cells in a number of vertebrates but reported fe v detail I attle as known regarding the origin of these cells from primitive vascular endothelium and the extent to which they may phagocy tose in fetal life Before the cytologi al physiology of the liver is understood it will be necessary to determine the life cycle of von Lupffer cells their fate after the ingestion of particulate matter and whether they become acing polyblasts within the blood stream under normal conditions as well as in certain pathological state This report a concerned only with the first two of

these problems and is restricted to mammils The use of vital dies in the delineation of the stellate cells has been for the most part satisfactory India ink in dilute suspension and iron stains have been frequently employed The authors have found the graphite 'hydrokollag 300 which was first described by Drinker and Churchil in 1927 a most excellent medium for the study of the stellate cells of the liver They have devised a method of pre paring the material which differs somewhat from that employed by Drinker and Churchil

In the nathors study, small quantities of bydro holder goo depending on the size of the animal were injected directly into the circulation. At variing intervals following the injection the animals were killed and the livers fixed in corrosse acctumat stanced with humatory has and coast. The most satisfactory results followed fixation of the liver in active directly into the protable view fig. the currosive active directly into the protable view fig.

A study of the distribution of the stellate cells was made on the dog cat swine rat rahhit guinea pig pocket gopher striped gopher and monke; The preliminary observations on the form position and frequency of the cells in laboratory mammals led to the conclusion that the cells are actively phagocytic toward particulate graphite injected into the blood Their response to the foreign substance is immediate a fraction of a cubic centimeter in jected into a mesenterie vein is at once engulfed by them They iterally become engarged at once Even when sections of the liver were taken immediately after the intravenous injection the stellate cells were found so well laden with the graphite that a detailed cytoplasmie study was impossible Without the delineation obtained by the injection method the picture of the phagocytic cells is entirely inadequate The extent of the cells is never so completely realized as when it is seen after extensive plago cytosis of the particles of graphite and one wonders whether such remarkable distensibility is not corre lated in some way with the amount of work the cell must perform and that in its resting inactive state its form and size are considerably less conspicuous The authors were unable to substantiate the obser vation of Havet (1925) that these cells he between the hepatic endothelium and its trabeculæ of the hver They conclude with Schilling (1909) Zimmer mann (1923) and others that the cells are an integral part of the endothelium but directed in their position toward the lumen of the sinusoid

In all of the anumals studied there was relative similarity in the size and proportions of the stellate cells. In cretain summats the cells were more numer our considerably larger and definitely stellate in our considerably larger and definitely stellate in protoplane control of the control of the control of our tregard to form or size the exceedingly market phagocytic activity of these cells was otheracteristic of all of the hepatic organs examined

Copher G II and Dick B M Stream Line Phenomena in the Portal Vein and the Selective Distribution of Portal Blood in the Liver Arch Surg. 1928 2011 408

Copher and Dick attempted by experimental study on animals to confirm the theory of the pres

ence of segregated streams of blood in the portal vein and their subsequent distribution to definite parts in the liver. The original work on this problem and the anatomy of the portal circulation in the dog are reviewed.

By the use of emulsified iodized oils the authors found that there is no intrahenatic anastomosis be tween the larger branches of the portal vein. The coloring material used was trypan blue. One gram of the crustals was dissolved in 15 c cm of blood serum and as a rule 3 e cm of this amount were used at each intravenous injection of the nortal radicals Following injection of the splenic vein almost all of the left lobe of the liver but only a limited area of the extreme right lobe was colored by the dye Most of the right side of the liver retained its normal color Injection into a small vein on the lesser curvature of the stomach uniformly stained the left half of the On injection into the superior pancreato duodenal year, the dye was carried to the right side of the liver and the two right lobes were deeply stained Dve injected into a mesenteric vein in the highest part of the jejunum was earried to the two extreme right lobes of the liver When a small vein in the meso appendix was injected the die was transported to all parts of the liver A similar distri bution was found when a vein on the mesentery of the left large bowel was injected. Posture did not affect the dissemination of the dye. When the dye was injected into different branches of the portal circulation it was possible by transilluminating the portal vein by candlelight to see sharply defined intraportal currents and to note the extreme rapidity of the flow in the portal vein. The volume of flow in the portal vein is estimated at 60 c cm per minute net 100 gm of liver

The authors conclude that hlood carried to the let lobe of the liver is drained principally from the abdominal organs that are not strictly engaged in the diagestion or absorption of food 1 et hesplene stom ach and colon whereas the blood carried to the right side of the fiver is collected from the almentary side of the fiver is collected from the almentary take of the fiver is collected from the almentary take of the fiver is collected from the about the fiver is the fiver is collected from the sources—the splenic vein the large mescatters vein and the small mescatters vein. Roscoz R Gaanu M D

Brun R. G. Hydattd Cysta Communicating with the Billiary Tract Their Frequency Their Treatment Based on 170 Observations of Hydaid Cysta of the Liver Operated Upon at the Saddia Hospitai (De la communication des hyster the Cysta of the Cysta of the Cysta of the Cysta Cysta of the Cysta of the Cysta of the Cysta level of the Cysta of the Cysta of the Cysta et al., 180 million of the Cysta of the Cysta et al., 180 million of the Cysta of the Cysta et al., 180 million of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the Cysta of the et al., 180 million of the Cysta of the Cysta of the Cysta of the Cysta of the et al., 180 milli

A male Arab was admitted to the hospital presenting all the signs and symptoms of a suppurating hydatid esst. In addition, there was a deep interus At operation, a superficial suppurating syst of the right lobe of the liver the size of an ostrick egg was marsupualized For several days the general condition showed improvement but the interus per sisted and the patient died from cacheria a month

Autopsy disclosed a second suppurating cyst of the same size as the first one but situated in the depths of the liver. There was a communication between this cyst and the right branch of the hepatic duct. A collapsed daughter cyst partially occluded the common duct.

Another case reported by the author was that of an Arab of forty suryears who suddenly developed an obstructive interins while he was in the hospital for the treatment of urethral stricture. His tempera ture rose to roz degrees Γ and the interins increased Λ mass the size of a man s fist was discovered in

the region of the gall bladder

At operation the gall bladder was found to be the size of a turkey segg. Above and lateral to it was a large hydatid cyst containing many daughter cysts and a purulent fluid strongly tinged with bile. The gall bladder also contained many cysts. Both the cyst and the gall bladder were drained.

The first days after the operation there was a profuse discharge of bie from the cyst but non-time the gail bladder. The reterus persisted. At a second operation performed on the fifteenth day the common duct was found greatly disted and when it was opened a collapsed cvst escaped with a flood of bie. The duct was drained. The patient

died a few hours later

Among the author's 170 cases of hydrid cyst of the liver ther were 27 cases complicated by a communication between the cyst and the bile tract. These casts are grouped as follows: (1) cysts communicating with the bile ducts without causing obstruction (2) cysts opening into the gill bladder obstruction (2) cysts opening into the gill bladder communicating with the bile ducts and producing obstruction.

In the first group there were 15 cases. The cysts contained bile and as a result of the communication they suppurated. Sometimes they contained air In such cases the cysts suffer from the communication and it is to the cysts that the treatment

should be directed

In the second group there were 8 cases In such cases the gall bladder suffers from the communication rather than the cyst. The gall bladder should be drained directly or through the cyst if the open ngs large. As the cysts cude its usually obstructed drainage of the gall bladder is of no vival if there is teterus due to obstruction of the common duct

In the third group there were a cases. In the 2 which are reported in this article the treatment was directed to the cyst and gall bladder and the results were poor. In the 2 others the common duct was attacked primarily and the cysts secondarily and both patients recovered. From this expense the author concludes that whenever there is citerus the common duct should be operated upon first.

ALBERT I DEGROAT M D

Hillebrand It Duodenal Irrigations in Case of Choledochus Fistuta (Duodenalspuelungen ber Choledochus@stel) Zentrafil f Chir 1928 1 000

The author reports a case in which following chole-existeromy with draining of the hepatic diet, there remained a fistula through which all the lid drained. In Internal medication was without effect, is were also attempts to forre the drainings into the metatic by tamponade of the fistula. Afterdinancy metation by tamponade of the fistula Afterdinancy metation with the first control of the first control o

In another case the fistula closed more quickly

another case the

following the irrigations

The author concludes that the persistence of such
fistular is due to a marked chronic catarrhal swelling
of the duodenal mucosa

Troop (2)

Richter It VI and Zimmerman L M Closure of the Abdomen without Drainage Alter Open tions upon the Bile Tracts An Su 1 19 S lxxviii 187

Primary closure of the abdomen in gall bladfer operations has been practiced by the suthors for twelve years and the range of its softcations has been andeced by apperance. The incision is closed site sample cholery steetomy operations on the common and the com

Early operation has been found to be of distinct advantage In the cases in which simple cholecyster tomy was performed the mortality was I so percent whereas in cases requiring work on the common duct The mortality in cases in it was 14 28 per cent which primary closure was done was 2 68 per cent whereas in cases with drainage it was 10 27 per cent However the poorest risks and the most difficult cases were included in the drained cases. Of the 7 deaths in the cases without drainage only I was due to persionitis In 204 cases in which simple cholecy! tectomy was done with primary closure the only death due to an abdominal condition was the result of pancreatitis The other death in this series was due to pulmonary embolism which occurred on the day of the patient s discharge In the entire senes of 262 cases without drainage there was only I death due to pentonitis

The comparative course in easier in cases without draining to them in hose with changing. Covering on an approximately pain radiating to the shoulder and more tympany nausea and somiting than eases without draining the template rise and the temperature is greater and the period of convalencence is prolonged. The presence of the

drain predisposes to infection hermia and adhesions increases the diaper of thrombiosis embolain and secondary himmorriage interferes with the normal healing process and causes drainage of thie which would not otherwise occur. In case, with primary dosure the escape of blue which is associated with drainage and the pain which is caused by the removal of a drain are a voided in caused by the removal of a drain are a voided and the primorum in call tolerated except in acute gargerous cholecystitis with highly infected blue.

The technique employed by the authors is separate ligation of the cystic artery and duct without hural of the stump of the cystic duct. As the perito neum has more protective power than the retroperioneal tissues it is safer to tie the stump than to attempt to hur; if behind the peritoneum

From the evidence presented in the series of cases reviewed the authors conclude that primary closure is safe and is preferable to drainage except in the presence of special indications for the use of a drain age tube

F 5 PLATT M D

ffenschen C The Surgical Anatomy of the Splenie Vessels (Die chirurg sche Anatomie der Mulagefaesie) Schatt ned Behnscht 1918 ivin

After a detailed description of the extrasplenic portion of the vascular supply of the spleen the surgical topography of the spleen; essels and the collateral circulation of the spleene extern Henschen gives rules for surgery of the spleen which are based on the vascular anatomy.

In order to save for the body the blood contained in the spleen when the spleen is to be removed the splenic arrey should be ligated first the blood milked into the venous trunks adrenain and pitutin injected into the spleen and the splenic veins then heated

Splenectomy and resection incisions should be made transversely. In resection great care must be taken not only in the zone of the various entering vascular branches but also in that of the ningra splene transverse system of vessels which near and partilled with the hiairs run in a cramocaudal arrection. In resections of the hius this zone of anastome sea should be ligated. Whenever possible the resection should be extended only to this region not directly into it.

Suture of a torn spleen and resection of the spleen should always be performed under temporary constriction of the splenic circulation. Constriction may be continued for ten minutes without diamaging, the organ. As the spleen bleeds less when it is pulled up out of its bed the security of the ligature should be tested after the organ has been put back in place by injecting methy liene blue into the attern.

With regard to keatton of the vest ds of the hius of the spleen as an independent operative procedure Henschen states that only the artery should be ligated the veins being left free to carry off the catabohe products from the interior of the spleen

The ligation should be done at a site where it will not interfere with the blood supply of the pancreas. In the cases of large tumors of the spleen with ad basons the artery should be exposed farther away from the organ either above or behind the pancreas—if necessary negatist origin.

In cases in which the collateral circulation is poor the organ should be surrounded with omentum and if necessary dramage should be established to protect against the danger of organ necrosis and forexmin Instead of the ordinary ligating functional throtting of the splenic arters with free fascial transplants is advisable.

Hutchlson R Chronic Splenomegaly in Child hood Diagnosis and Treatment Bril M J 1028 u 281

Chronic splenomegalies of childhood may be class shed as follows () chronic infection (?) tropical splenomegaly (3) splenomegaly in metabolic diseases (4) Gauchers disease (5) splenomegaly associated atthe circles of the blood (6) splenomegaly associated atthe circles of the liver (7) splenomegaly due to splenot thromboas (8) the splenomegaly in spleno of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Bartis disease it type and (6) the splenomegals of Barti

Tumors cysts new growths and abscesses of the spleen are extremely rare

In cases showing a negative W asserman reaction no enlargement of the Jumph glands and no char acteristic leucocytic picture. But in which there is some degree of animia associated with leucopania increased fragility of the red cells or homatemeasis applications were many advasable. With regard to cases of Gauther's ducate and cirrboass of the liver there there was a subscenarious a to the advasability of removance the solutions are to the advasability of

WILLIAM E SHACKLETON M D

Billings A E Abscess of the Spieen in 1 Surg

Billings reports 3 cases of abscess of the spleen which were operated upon with recovery. The derelopment of a splenic abscess depends almost in variably on the deposit in the spleen of progenic organisms from a primary source of infection by way of the blood stream. The source may be a suppurating focus obvious or concealed in any part of the body Splenic abscess is most apt to occur when there is a general blood stream invasion by pus producing organisms and the infection has reached the magnitude of a septicopyæmia such as is observed in cases of acute ulcerative endocarditis and other virulent generalized infections caused most commonly by streptococci and staphylococci The causative agents include almost all of the pyogenic organisms Splenic suppuration has been at tributed to many of the neute infectious diseases such as influenza smallpox and rheumatic fever Certain of the specific fevers particularly enteric typhus and relapsing fevers are believed to play a special role in its etiology None of the recently reported cases has been attributed to malana but may not be manifested for many months or years Kuttner and others ranked malaria next to typhoid after the attack of typhoid The local symptoms in etiological importance

In 3 600 autopsies performed at the Pennsylvania Hospital 24 cases of abscess of the spleen were found In 5 cases the abscess was associated with acute peritonitis due to streptococcic or staphilo coccie infection. In 3 the abscesses were multiple and in 2 they were small and solitary. In mone had there will be diaphragmatic and pleural involvement there been any symptoms suggestive of splenic in flammation. In 2 cases the antecedent infection was suppurative appendicitis in 1 a staphylococcus progenes aureus infection of the upper lip with left shoulder septicamia and in I suppurative choleevstitis with liver abscess. One case was an example of infection. Elevation and fixation of the left diaphragm is very of the spleen with abscess formation by propagation, suggestive and is a constant finding when the infec

following perforation of the stomach Most abscesses of the spleen result from the usually the case in abs ess of the upper pole Ex breaking down of injected infarcts. The symptoms ploratory puncture is also a valuable aid to diagnoss of splenic abscess are exceedingly variable in character and intensity. In some instances the manifestations that might he considered more or less typical are overshadowed or altogether obscured by either splenotomy or splenectomy. Surgi al apthe injection of which the suppuration in the spiesn is only a complication. The seventy of the symptoms of abscess of the spleen depend upon whether the course of the condition is acute subacute or chronic and somewhat also upon the etiological factor Of the causes typhoid fever probably in fluences the course and character of the symptoms more strikingly than any other infection. In some instances an abscess may develop during or soon after the primary infection but more commonly the organ is comparatively free from adhesions the there is an interval of a few weeks or months before infection is confined within the capsale and the suppuration takes place The development of the removal of the organ can be effected nithout dull abscess is sometimes mistaken for a relapse. In culty or danger of disseminating the infection exceptional cases the signs of abscess formation

may be so mild as to be overlooked

As the evolution of the abscess progresses from the upper pole toward the thorax or from the lower pole toward the general peritoneum symptoms of a pleutopulmonary or abdominal nature will develop When the extension is toward the thorax characterized by pain of varying intensity located in the left hypochondrium and lower thorax and radiating to the back and sometime allo to the

ray examination 1 of great diagnostic aid. tion has extended to the subphrenic space as is and may give the needed information in a doubt! !

The surgical treatment of abscess of the suleer is proach to the abscess may be gained by the trans pleural the abdominal or the retropersoneal rune The route chosen will depend upon the di ection of the abscess invasion Frequently this is toward the thorax necessitating a frampleural or transdia phragmatic approach. An abscess situated in the antenor surface or lower pole will usually be more accessible through the abdomen Splerectomy is indicated only in rather ex eptional cases in which SAMPLE KANY UD

GYNECOLOGY

UTERUS

De Sa II A Case of Double Uterus J Obst &

The case reported by the author was that of a woman forty two years of age who sought treatment for severe pelvic pain. The patient had had five normal pregnances her menstrial periods had all ways been regular and normal and her general

development was good

On physical examination a double uterus was suspected from the discovery of a pyritorin mass in each form; the absence of a typical uterus and the presence of remnants of a vaginal septium. This suspicion was confirmed at evidentory operation although, Y any examination following the injection of lipiodch had failed to reveal the anomal). Hyster ectomy was not nermitted.

HARVEY B MATTHEWS M D

Masson J C and Parsons E Cystic Cervicitis
with Special Reference to Treatment by Cau
terization Am J Obit & Gynec 102° No 348

A clinical study of chronic evitic extraction in a hypertrophical center was made an order to compare the results of catternation with those following amputation of the crivia. The exatterization was not the imple office cauternation but a thorough procedure on an anasthetized patient or with the operative field blocked off with parasacral or caudal anasthetis to that all of the cysts were punctured and their walls thoroughly destroyed this procedure destroying considerable tissue but not interlening with the blood supply to the endocerny. The majority of amputations were of the Sturmdort type. Of the 1 org. cases the considerable tissue for the considerable tissue of the considerable tissue of the considerable tissue of the considerable tissue of the process of the considerable tissue of the

The madence of cystic cervicits at the Mayor Clau site stan is usually reported 01 2 600 women examined it was found in 2 505 (10 5 per cent). Over one half of the women treated were made to the standard of the standard of

only 15 of the cases

The chief symptoms were leuvorthea (2) per cent) mentral rregularities (32) aper cent) pelve pain (2) aper cent) and irreleant symptoms (30) percent). The inducations for cauterization or ampliation of a hypertrophical eroded cystic cervis depend upon the local condition of the cervix and not upon the symptoms. After convolete bealing the local appearance of the cervix following thorough

cauterization is similar to that seen after a low am putation

According to the findings of the pathological

study of the tissue removed and the follow up of the patients treated there is no indication that cystic cervicitis is a precancerous condition The results show that cauterization is as effective

The results show that cauterization is as effective as amputation in the cure of leucorrhox and that the general health is not affected by the cervical condition to any great extent

Pregnancy occurs more frequently miscartiages are less frequent labor is more often normal and lacerations occur less frequently following thorough cauterization than following amputation of the cervix

Simon H E Hæmatometra A Report of Twenty Three Cases Surg Gynec & Obst 1928 xlvn 356

Hæmatocolpos hæmatometra and hæmatosal pus may develop from obstruction in the lower part of the female genital tract preventing the nor mal scape of the meastrual hlood from the uterus. The obstruction may be congenital or acquired When it is congenital it usually involves the vagina and may he simple or associated with more complex anomalies of the genital tract. When it is acquired it usually involves the cervix except in the aged and is frequently the result of trauma nuclent to part the sequently the result of trauma nuclent to part the acquired type of obstruction may be complete or uncomplete.

The symptoms of hamatometra are typical. There is absence or essation of the menses coincident with attacks of severe pelvice or addominal cramps usually occurring about once a month. The attacks of pain tend to hecome more severe and are asso crated with progressive enlargement of the uterus.

The treatment depends upon the trequirements of the individual case. When the risk of the conservative operation is not prohibitive the genital organs should be preserved during the childbearing age. In the presence of certain complications vinginal drauage should be combined with abdominal exploration. In some cases radical surgical measures should be adopted primarily.

Allen E and Bauer C P Autotransplantation of Endometrium in the Eye of Rabbits Surg Ganc & Obst 1928 Alvu 329 Traut II F Adult Human Endometrium in Tis

sue Culture Sure Gyn c & Obst 19 8 rivil 334

In the experiments on rabbits reported by Attext
and Baura the abdomen was opened by a midline
incision under ether auxisthesia a small portion or
all of the uterus was removed and placed in warm
normal salt solution and as soon as possible there

after small pieces of the tissue were implanted in the antenor chamber of each eye. In the cases of four of the rabbits small bits of testicular tissue were implanted in the eyes in order to obtain a comparative check on growth and reaction. The authors found that with a little practice they could readily insert pieces up to the size of a split pea After the abdomen was closed a small piece of

tissue was implanted in the abdominal incision The eyes were first prepared by clipping the lid hair short with ordinary finger nail seissors. A drop of mercurochrome dropped into each eve furnished enough fluid for the easy handling of the implant With the eve fixed and slightly rotated an incision was made through the corner at the limbus with an ordinary cataract knife. As a rule enough fluid es caped to reduce the intra ocular tension sufficiently for the easy insertion of the implant in the anterior chamber on the end of a blunt eye spatula. In the beginning the hids were closed by a single inter rupted suture fo the first forts eight hours but later better results were obtained by leaving the eye open vilhout any form of dressing

\ auccessful take was obtained in forty four of the fifty eves. The eves were either enucleated senarately or when the second one was to be removed the animal was killed with ether and an autorss was performed. The eyes nere fixed in Zenker's solution and sectioned in celloidin time before their removal ranged from two to four

teen months

Allen and Bauer draw the following conclusions

The epithelium of the endometrium in rabbits has a marked tendency to prohferate

2 This proliferated epithelium tends to retain its secretory ability and to reproduce gland like sha es and cystic cavities

a Ita ability to invide other tissue is not so marked as its tendency to proliferate but seems to be quite definite

4 Ectopic endometrium epithelium did not tend to produce a connective tissue reaction in these

transplantations 5 Endometrum transplanted to the eye of rab bits will undergo the same decidual reaction as take

place in the pregnant uterus Transplanted endometrial stroma and uterine mu culature remain viable for long periods of time without showing any tendency toward further

growth 7 Tests war or perstoneal epsthelium did not

show a sur lar ability to proliferate or invade 8 In rabbits the abdominal wall does not seem to favor the survival of implanted endometrial

TRAUT Secured endometrial tissue from the cav ity of uters freshly received from the operating room While still warm and sten e the uterus was opened and a small portion of endometrium was removed and placed in warm sterile Ring ra solu tion The sterile endometrum was carefully washed in several change of Rivger's solution to free it

from all traces of blood. The tissue was cut into very small fragments and these were transplanted into a medium composed of a solid part formed from a fibringen suspension and dilute embryonic extract containing a trace of sodium linoleate to present digestion of the clot and a fivid part composed of tyrode solution The fibringen suspension was in troduced first being diluted with an equal volume of tyrode solution so that the whole volume was rem I se tenths of a cubic centimeter of tyrode solution containing a trace of sodium linoleste and o s com of dilute embryonic extract were then added The fragments of endometrum were care fully placed in the medium couldistant from one another before coagulation took place. The medium

was then allowed to solidify and I c cm of tyrode solution was added The rate of growth of cultures was measured ea b forty eight hours. The cultures were placed in a projectoscope which cast a shadow of known mag The shadow was outlined and its area measured by means of a planimeter computed and charted The areas were plotted from day to day so that a growth curve for the various cultures was kept In this way it was possible to ascertain with considerable accuracy the average rate of growth of the endometrial cells in the media used. This was found to be about half as fast as that of embryos c cells in the same media

It was found that the growth occurred almost wholly from the stromal or connective to ue por teens of the explant The epithelial cells apparents had such a long latent period that they were over grown by the stroma cells. This gave an almost pure strain of connective tissue cells on the periphery of the cultures and by carefully sectioning a c little so as to obtain only the pempheral rells it was pos-

sible to obtain pure strains of stroma cells A pure culture of stroma cells growing at a known rate of grouth in a medium of known composition baying been obtained it seemed desirable to deter mine if possible what effect foll cular fluid and an extenct of corpus luteum cells would have on such

a culture if it was used to replace the embryoni extract The cultures with followlar fluid survived six of eight days with slight cell migration but no real growth Il hen the corpus luteum extract was used in place of the embryonic extract the I sult was quite different there being a most insurant and raped arouth of the cells which equalled and in some instances exceeded the rate of growth in the cultures containing the embryonic extract Appar ently the corpus luteum extract contain substances analogous to the e contained in embryonic extract ie substances which enable the cells to metabolize some portion of the culture medium into protoplasm and to reproduce themselves This seems to be 1 much more stable substance than that contained in embryonic extract as temperatures up to 65 degrees C for filteen minutes did not affect its potency to

any appreciable extent Albert M Volumer MD

Shaw W Mixed Turnors of the Uterus and va gina J Obst & Gynac Brit Emp 1928 xxxv 498

The term mixed tumors has been applied to neplasms consisting of cells foreign to the particular organs in which the neoplasms consisted of cells desired to desire with a second cells. These tumors are of especial interest because of their peculiar hiotogical structure and because of the problems are of the problems of the problems

The author believes it is convenient to divide these tumors into three groups those originating in the body of the uterus those originating in the cer vix and those originating in the vagina. From bis study he draws the following conclusions.

r The grape like sarcoma of the cervix usually contains striated muscle cells and cartilage and should be included in the group of mixed tumors. The average age of persons developing such a fumor is thirty four years. The neoplasm does not occur typically before puberty or after the menopause. Its malignancy is extremely, high

2 Mixed tumors similar to those of the cervix originate in the body of the uterus but they are

rare They develop after the menopause

3 Some of the vaginal sarcomata of children

belong to the mixed tumor group

4 The mixed tumors contain heterologous tissues Striated embryonic muscle cells cartilage fat bone and elastic tissue have been found in them in addition to surcoma cells

5 There is no satisfactory explanation of the origin of mixed tumors Harvey B Matthews M D

Germell A A Cystoscopy in Carcinoma of the Cervix J Obst & Gynac Brst Emp 1928 xxxv

From a study of 111 cases of cancer of the cervix

the author draws the following conclusions In clinically inoperable cases cystoscopy is unnecessary but in clinically borderline cases it is of great value and may be the chief factor indicat tag the operability of the condition

2 All cases judged operable should be subjected to cystoscopy to determine whether there is any extension of the condition in an anterior direction which has escaped detection on bimanual examination.

3 Cystoscopy cannot be replaced by a study of the urmary symptoms

4 The limit of operability is denoted by transverse ridging. Budging of the bladder wall is only mechanical Circulatory changes are a part of the pelor hyperamia associated with the disease Bul but the bladder wall but thereto. The accuration of its near approach thereto. The accuration of its near approach no in faction of the difficulties likely to be encountered in the dissection of the uterus.

5 The cystoscopic appearance is of value also in the prognosis HARVEY B MATTHEWS M D

Ward G G and Farrar L k P Radium Statistics of Carchoma of the Cervix Uterl Two More Five Year Series J Am M 1ss 1928 year 296

In the technique used by Ward and Farrar in the treatment of cancer of the cervix utera both radium needles and a tube are used and the dosage varies from 400 to 4 co mgm hrs The radium tube is anchored to the cervix and the needles are placed in the broad beaments and in the cancerous tissue in the vagina. The vagina is distended with gauze to prevent contact of normal tissue with the radium and a retention catheter is left in the bladder to keen it empty during the treatment. In the cases of anæmic patients blood transfusions are given before the irradiation is begun. After the irradia tion the patient is urged to be out of bed early to insure good drainage in case of purulent discharge and a potassium permanganate douche once or twice a day is ordered. When she leaves the hospital, the nationt is instructed to report once a month for

After irradiation the carcinoma retrogresses. As the slough disappears it is replaced by connective tissue and the cervix and vault of the vagina become

pale and contracted

The authors recommend small doses in preference to massive doses of radium with repeated irradia tion as indicated. This they believe lessens the chance of destroying the normal issue. They have been unable to predict the end result of therapy based on the type of cancer cell found. They be lieve that in cancer of the cervix obtonic irritation is an extremely important etiological factor especially in women who have been lacerated at child birth.

fn tabulating the results obtained by irradiation the authors group their cases according to Schmitz s classification which gives a sufficiently definite ana tomical description of the extent of the lesion. They report the outcome of the treatment only after five years in order that their results may be compared with those obtained by surgery which are usually reported by surgical clinics five years after opera tion In their statistics of deaths from cancer they include the cases of all patients who could not be traced or who died from any cause. They state that this may seem unfair in some instances in which it is difficult to trace cases or in hospitals that do not have a follow up system but if the rule is generally applied it can affect only a small per centage of cases and may lead to a better follow up system This procedure was followed by Heyman in a statistical analysis of more than 8 000 cases The authors give also the operability rate and the primary mortality in their cases for comparison with cases treated by radical operation

Of 134 patients treated by radium irradiation alone 23 t per cent were still living at the end of five years. In the statistics of 17 clinics. Hey man found the incidence of five year cure to be 16 3 per cent. In the authors cases of operable carcinoma.

limited to the cervix 4 five-year cure was obtained in 53 i per cent whereas in similar cases treated surgically Heyman found a five year cure in ac 6 per cent The primary mortality from the use of radium was 1 6 per cent and the primary mortality of radical operation 17 2 per cent. These statistics demonstrate that irradiation of early carcinoma of the curvix gives better end results than radical operation with a lower primary mortality and less morbidity CHARLES F DU BOIS M D

Mowat G T The Results of Radium Treatment in Carcinoma of the Cervix Uteri Glazgon M J 1028 CX 142

Mowat reviews the results obtained in filty cases of carcinoma of the cervix treated with radiuso Forty eight were inoperable on account of extension of the lesion to the vagina or the broad ligaments

In seventeen cases which were treated in the period from July 1925 to September 1926 the treatment consisted in the use of 30 mc in the uterine cavity 15 mc in the base of each broad ligament and 5 or 10 mc in and around the cervix totaling 100 to 140 mc and left in position for four days The dosage amounted to from 7 000 to 0 000 me hrs Three apple ations were given at six week intervals (Note It is not stated that each of the three treatments amounted to 7 000 mc hrs)

In seventeen cases treated in the period from September 1026 to March 1027 radium bromide was employed o4 mm platinum iendium needles containing 5 10 or 20 mgm of the salt being in serted in the same manner as the emanation Froro 00 to 150 mgm were used and left in place for from twenty four to forty eight hours The total dosage

ranged from 3 000 to 8 000 mgm hrs

In six cases from no to 140 mem were used within the uterus and in approximation to the mass in the vaging for from twenty four to forty eight hours

In ten cases from 100 to 140 mgm were applied within the uterus and vacinally against the mass and three weeks later deep " ray treatments were

given at intervals of six neck.

The reaction showed three stages (1) sloughing and increased discharge indicating destruction of cancer cells (2) disappearance of the slough followed by granulation during the third week and (3) fibrosis Fibrosis the desired result was complete in 64 per cent of the cases and partial in 32 per cent Absence of ulceration and complete scar for mation characterized this stage. The microscopic findings in the various typical stages are described in detail and shown in photomicrographs

The following conclusions are drawn

Temporary or permanent local destruction of malignant cells is accomplished in the majority of cases Scar tissue eventually forms

2 In a my only of cases isoluted champs of malignant cells remain quies ent in fibrous tissue but a smaller number regene ate and result in clinical recurrence

3 Radium has a local destructive effect on

malignant cells

While complete disappearance of chinral and mi croscopic malignancy from the cervix and vigos occurred in most of the cases the large majority of the patients are dead Of thirty four patients with moperable carrinoma who were treated in 1915 and 1926 none is alive Better local results were obtained from one treatment with 140 mgm. of radium than from repeated smaller doses. Postmorten er amination in twenty-one cases revealed infiltration of one or both broad hearments and the uterosarph ligaments but the body of the uterus was generally free from the disease. In the majority of the cises hadronephrosis had developed either from pressy't by the tumor or sear tissue contraction due to the radium. In eight cases the vaginal vanit was free from disease. In six cases there was a vesicovagual fistula and in two cases a rectovaginal fistula la eight cases secondary nodules were present in the abdominal gland , the liver or the lung but in so instance were the bones affected

Six of the patients died as the result of the radium erradiation-four from sloughing and two from tel lulitis and abscess formation-and the others from local pelvic extension. In eight of the filteen other cases there was local eradication of the primary growth Secondary growths were present in eight

The postmortem findings showed that in both treated and untreated cases extension occurred pra capally through the broad and uterosacral ligament. and with late glandular involvement Secondary distant metastases were found in both senes

The author concludes that squamous relied can cer of the cervix spreads mainly along the lymphatic channels and by direct infiltration from the cervis The glands of the pelvis are involved late and then probably as the result of the pressure of the enlarg ing growth rather than as the result of emboh on

The chief problem in radium treatment is whether all of the malignant cells can be brought within the range of the radium The range is from 3, 10 } 18 In inoperable cancer of the cervis radium irradiation is not curative but it gives from nine to eighteen months of active life and relative comfort in operable cases either radium or overation el fects a cure if the primary growth is the only malignant tissue present A JAMES LABERY M.D.

ADNEXAL AND PERIOTERINE CONDITIONS

Douglass VI Torsion of the Palloplan Tube with the Report of a Gase Producing Acute Gan grene of the Tube 1m J Obst & Gyn c 191

Douglass reports a case of torsion of the fallocian tube in a para in thirty five years of age For two weeks prior to her admission to the hospital the patient had cramp-like pains in the right lower quadrant of the abdomen At the time of he ad mission she had a fever of 38 5 degrees C a leutocyte count of 14 00 and leucorrhoma. After expectant treatment for eight days the temperature returned to normal and the leucocyte count dropped to 10 000. Vaginal examination then revealed postenor to the uterus a soft cystic mass about the sure of an orange. The uterus was of normal size.

Lanarotomy revealed a dense black gangrenous mass bound down by adhesions of the uterus and the right tube. After the adhesions were broken the right tube was found twisted on itself the times this torsion accounting for the gangrene Microscopic examination showed acute necross of the right tube the endossilions had been destroyed.

The factors responsible for torsion of the fallopian tube are (i) the anatomical position of the tube with its attached mesual extremity and ats hx distallermity (a) the changes in abdominal pressure associated with prepanary (a) mensituation with its attendant congestion and venous stasses and (a) anatomical anomalies such as a long mesosalipian de changed ployation of allogiance and in grad by additional confidence of the confidence of th

The initial 33 mptioms are usually severe pain and hock such as occur when an ovarian cyst is twisted on its pedicle. If undiagnosed the condition may on to gangene very rapidly the tube may disease itself or the hematosalpina may rupture and engage itself or the hematosalpina may rupture and may be a support of the body of the condition may be able to be a support of the other tube should be examined as the underlying pathological condition may be lulateral E L Consein MD

Smith W S and Denton J A Case of Pyosalpinx Caused by Oxyuris Vermicularis Complicated by Torsion of the Oriduct Am J Obst & Gynec 1928 Xvi 205

The patient whose case is reported a nullipara thenty three years old gave a history of pain in the night lower quadrant of the abdomen which was worsen the standing position than in the situting position and within a few days became so severe that he was unable to work. Vagnal examination revaled a mass in the right bood ligament and a smaller one on the left sude. The uterus was anteverted and displaced to the left. Cervical and ure thrial stream were negative for geogeoccu.

At laparotoms the right tube was found distended Cystic, and adherent to the uterus and intestines in its outer two thirds. The inner third was small that and completely tusted on itself from ught to let. The left tube and ovary were greatly the complete to the left side of the inner the complete complete the side of the inner the complete complete the complete complete the complete comp

The patient made a good recovery felt the hos pital on the twenty first day and was back at work at the end of another month

Pathological examination of the left oviduct showed that the increase in the size of the tube was due to an extensive inflammatory process in the tubal wall. There was a marked infiltration of the mucosa and submucosa by lymphocytes large mono nuclears foreign body grant cells and a fibroblastic reaction The puriform material was not pus but a product of anamic necrosis In all of the microscopic preparations thin shells of small round worms were found The shells of the organisms gave a positive test for chitin The worms were believed to be oxvers vermicularis. In the tissues surrounding the parasites there was a marked foreign body reaction No ova were found. The stools were negative for parasites and ova Some of the lesions were thought at first to be tubercles, but no tubercle bacilli could he discovered and guinea pig inoculation was negative

Lases of oyurus vermeulans of the fallopian tubes have been reported by Tschamer Schoneider and Marro. The authors regard their case as of interest because of its unusual etology the complicating torsion of the tube and the bird duration of the subjective symptoms. They state that it unusual for such marked pathological changes to occur in an apparently healthy woman without more pronounced subjective symptoms and with such little disturbance of measurations.

E L CORNELL, M D

Wolfe S A Primary Bilateral Carelnoma of the Tube fm J Obst & Gynes 1928 2v1 374

Wolfe reports a case of bilateral carcinoma of the fallopian tubes in a woman aged fifty six years. On entrance to the bospital the patient complained of a vaginal discharge abdominal pain swelling of the abdomen and loss of weight. The patient a history and the family of the patient of the patient and the patient of the patient of the patient of the pregnancy labor and puerpenum were normal. Her death was preceded by marked assets.

A complete autopsy was made. The anatomical diagnosis was sende involution of the uterus car enomatous implants bilateral papillary adenocar enoma of the tubes metastatic carcinoma of right ovars and secondary peritoneal carcinomatosis.

Detailed pathological examination showed that the omentum and uterus were densibly covered anterordy and the serous of the uterus had been largely replaced by mailgand tasse The right tube was much enlarged and its lumen filled with nuspeasated material. The mucosa had many fine spallary processes which were carranomatous. The left tube was not a similar condition. The right ovary contained numerous metastases in the medulla but the left ovary was tunnolved.

E L CORNELL M D

Novak E The Present Status of Ovarian Therapy

Ovarian preparations for oral administration are made from the entire ovary from the corpora lutea

alone or from the ovarian residue ie the por tion of the overy remaining after the removal of all corpus luteum tissue. The first two types are used more extensively than the third type All of them are available in the form of tablets capsules and powders There is no standardization of these preparations not is there likely to be in their present form as laboratory tests show that they are without any demonstrable biological action Ovanan residue may contain an incidental though always small and uncertain amount of follicle tissue but if it is de sired to administer follicle substance hy mouth there are far more potent and more precise ways of doing so than by means of ovarian residue placental tissue contains a large amount of follicle hormone and the use of placental extracts seems to have some scientific basis. Tofficle substance is difficult to obtain even in the small amounts neces sary for hypodermic administration. Locue I ange and Faure have shown that while its oral adminis tration is effective even producing cestrus in eas trated animals the amount necessary for oral ad ministration is at least twenty times the hypodermic dose There is considerable reason to believe that the active principle of the overy is destroyed by the alimentary juices

On the basis of the nen knowledge of the potency of follicle hormone manufacturers are striving to produce preparations which will yield chinical results. Some of these preparations are now on the market but in limited amounts and at a rather high cost. They are sold under various names such as

foliculin cestrin cestrogen ferming menformon and thelykinin All of them are

for hypodermic use only

It is generally agreed that the lipoidal olutions are best. They do not deteriorate so readily as the aqueous extracts and as they are absorbed more alowly their effect is less evanescent.

There is much evidence to indicate that the corpus luture priys a part in the human cycle which is no less important than that of the folliet. A number of investigators have been able to prepare active corpus luteum extracts which produce effects quite different from and in some respects antagonistic to

those produced by the follide hormone. Hissaw in a recent prehimmary communication has attacked the problem from a new point of wise life found that the pelve ligaments of the general pig are refaxed by impactions of corpus buteum extract but only when the minial is under or recovering from the influence of the follide hormone in the compusion of the compusion of the corpus literum must be given in proper sequence. Apparamently the follide hormone is necessary to put the uterus as proper physiological condition to respond to the corpus lateum many the control of the corpus lateum and proper physiological condition to respond to the corpus lateum bormone.

Among the manifestations which may reasonably be ascribed to hypofunction of the ovary are

i Amenorrhora (absence of menstruation) hypomenorrhora (scanty menstruation) and oligomenor there (abnormally infrequent menstruation) delayed puberty and premature menopause
2 The versomotor symptoms of the menopause

(erther natural or artificial)
3 Sterility (probably in only a small percentage

3 Sternisty (probably in only a small petter of cases)

4 Possibly certain instances of so called piguary dysmenorrhora genital hypoplasia obesity repeated abortion and menstrual headaches

In the treatment of ovaran hypofaction the follule hormone has been used by the results have usually been disappointing because the dosage may ployed has been unadequate. The hormone bodd he administered in large doses preferably at less soo rat units daily for eight or ten days and the stopped If menstrustion does not occur in four or five days the innections may be resumed

Noval, believes that neither follicle nor corpus luteum injections alone are as effective as a combination of the two in proper sequence. The best plan is to give eight or ten injections of the follicle hormone followed by perhaps six of a corpus luteum

entract
In the treatment of the characteristic symptoms
of the menopause ovarian therapy by the art lovid
is of much benefit. It should be supplemented
bowever by the usual measures of hygnes and
procedures to bound up the general health. Even mov
important is reassurance of the patient regarding
the significance and temporary nature of the spec-

toms
In sternity organotherapy is still in the empire
stage. The recent work on the relation of the pi toutary gland to the overy offers far more he, it is the successful treatment of endocranopathic stenity than any other development of recent years but ay yet no means of elimeally applying the experimental findingers is apparent.

In primary dysmenorrhora genatal hypoplana obesity repeated abortion and mentrall had aches in which the etiological role of hypogratisms is far fess clearly definable there is little reason to expect much benefit from organotherapy. In the present state of our knowledge ovarian through it employed on empire or seem empiring genunds.

empioyed on empiric or semi empiric syndromes lery hitle is known about thin cal syndromes referable to excessive function of the orary. There is perhaps only one condition in which the scientific evidence for such a hyperfunction is fairly complete.

ne the so-called functional uterms bleding sible occurs most frequently at the menopousal speed is not rare at or shortly after puberty and at other times during reproductive life. The treatment of this condition would seem to be the injection of corpus luteum extract if an extract of vidoubled potency is made available. By daily injections of a broad containing corpus luteum extract for six eight davis before the onsect of the abnormal region of the containing the amount of the breaking at which we have before the onsect of the abnormal region of the carried along until the endocrine balance are resdupsted.

All start M touture M D.

Autotransplantation of the Ovary Into the Cavity of the Uterus (Contributo all op azione di autotrapianto dell'ovaio nella cavità uterna) Clin ost i 1028 xxx 498

The case reported was that of a woman of thirty one years who had been married for ten years but had never been pregnant. The patient suffered from painful and prolonged menstruation leucorrhoca

sacrolumbar pain and headache

Gynecological examination showed bilateral sal pingo cophoritis At operation the left tube was found to contain about 10 c cm of pus The tube and ovary on that side were removed. The right ovary was transplanted into the cavity of the uterus but was left connected with its ligaments in order to assure its nutrition. The patient was reheved of symptoms and her general health has improved greatly. The transplanted ovary functions

None of the results can be attributed to the im plantation of the overy into the uterus as they would have been brought about by the removal of the diseased adnexa even if the right overy had been left in its normal position. The patient bas not become pregnant but Tuffier Estes and others

have reported pregnancies following this operation The author concludes that the operation is rational and justified as it creates conditions which make pregnancy possible but that it should be done only

in selected cases AUDREY G MORCAN M D Dolgopol V B Ectopic Corpora Lutea Am J Obst & Cynec 1928 xv1 218

Dolgonal reports a series of six cases of ectopic corpora lutes and reviews twenty four cases from the Russian and German literature Relatively len cases have been reported in the English and Amer ican literature. The author believes that the anom aly is more common than is supposed and urges all surgeons having occasion to study the ovary at oper

ation to look for it Corpora lutea may become partially or totally separated from the ovary. The inhibiting influence of ectopic corpora lutea on menstruation and ovula

tion has not been definitely established L L CORNELL M D

EXTERNAL GENITALIA

Babcock W W The Vaginal Approach to the Peritoneum St g Chi 1 1 im 1028 vill 783

Babcock states that abdominal surgeons should be familiar with the indications for and the tech nique of the vaginal approach to the peritoneum as the cul de sac inci ion may be life saving and ligation or clamping of the bleeding tube in ectopic preg rarry is accomplished more quickly and safely septic pelvic accumulations are more sifely drained

and at times unusual abdominal complications are best handled by vaginal section

He describes his method of varinal enterostomy for postonerative ileus from pelvic peritonitis and concludes from his experience that the cul de sac incision permits exploration of the pelvic perito neum and drainage of the obstructed loop of bowel with immediate relief and little or no shock. Ap pendiceal abscess low in the pelvis or an inflamed appendix below the ileopertineal line may be effectively and safely reached through a vaginal incision

The author describes also his method of vaginal ureterocystostomy for ureteral obstruction close to the bladder wall ALICE I MAXWELL M D

Basset A and Guérin P Sarcoma of the Vagina in the Adult (Contribution à l'étude des sarcomes du vagin chez l'adulte) Gynée et obst 1028 xviii

The case reported was that of a woman forty four years of age who came for treatment in Tanuary to c because of a tumor in the vaging which she had discovered herself. She had no symptoms except a certain amount of pain on coitus and a feeling of weight at the anus. Operation was performed on January 27 ro25 and was followed by uneventful recovery Histological examination showed the tu mor to be a round cell or lymphoblastic sarcoma The patient was given two radium treatments sena rated by an interval of eight days-a vaginal appli cation of 10 80 mc and a rectal application of 4 68 mc When she was seen on September ra roze

there was no sign of recurrence

Sarcoma of the vagina has no characteristic symptoms Often the patients do not come for treat ment until ulceration has occurred Ulceration is followed by hamorrhage Ulceration seems to occur earlier in sarcoma of the vaging than in sarcoma in other parts of the body though not so early as in enithelioma There may be a serou or sanguinolent discharge or bladder symptoms. The duration of the disease varies from two months to two years depending upon the histological character of the tumor Recurrence is very frequent. As y t it is impossible to say whether the cure in the case reported is final but the author are hopeful on account of the radium treatment The lymphoid type of sarcoma is par ticularly sensitive to radium

Surgical removal is advisable before the use of radium as it is impossible to determine the histologi cal nature of the tumor without microscopic exami nation and biopsy is more or less dangerous in sarcoma However the surgical removal need not be so extensive as was formerly though necessary since very extensive operation has not proved more effective in preventing recurrence than more limited surgery AUDREY G MORGAN M D

OBSTETRICS

LABOR AND ITS COMPLICATIONS

Hofbauer J The Effect of Bile Salts upon the Automatic Contractions of the Uterus and upon the Action of Pitultary Extract During Pregnancy A Possible Explanation for the Cause of Labor Am J Obst & Grace 1028 X11 245

In an attempt to explain the causation of the onset of labor. Hofbauer made an experimental study using bile salts on portions of excised uteri suspended in Locke s solution

It has been known for some time that in preg nancy there is a steady increase of the bile salts in the circulation. In the author's experiments at was found that the addition of small quantities of sodium glycocbolate to portions of the strips of muscle sus pended in Locke's solution suppressed the sponta neous uterane contractions The relaxation of the uterine tone could not be neutralized by the addition of small doses of pituitrin but large doses of pituitary extract produced strong utence contractions equal to the contractions occurring during labor

Hofbruer believes it logical to assume that the activity of the pituitary body may be one of the factors responsible for the onset of labor

E L COINELL M D

Lynch F W Anæsthesia in Obstetrics Cal forma & Best Med 1928 xx11 173

The author believes that the metabolic changes normally present in pregnancy make the patient a poorer anasthetic risk than she would be in the non-

pregnant state

tions

Abdominal complications demanding surgical in terference during pregnancy can be operated upon without much abdominal relaxation. In a great per centage of cases local anaesthesia is used. Il neces sary this may be supplemented with nitrous oxide and oxygen or ethylene and oxygen Ether should be given only when it is needed to

secure muscular relaxation as in versions and should he avoided if possible in carsarean sections. Mor phine should not be given before casarean section

Nitrous oxide with oxygen has been favored by the author for analgesia in the second stage and for anysthesia in exsarcan section and forceps extrac CARL H DAVIS M D

Mathieu A and Schauffler C C The Rigid and

Stenosed Cervix in the First Stage of Labor Am J Obst & Cynce 1928 X11 390

In a study of the rigid and stenosed cervix in the first stage of labor the authors were unable to demonstrate the existence of a band of continuous circular fibers of the sphincteric type They are of

the opinion that the caliber of the cervical caral is maintained passively by the anatomical conforma tion of the organ They state that so-called casmodic cervical contraction occurring during labor as frequently psychic as is shown by other symptoms of a similar nature and the patient's mental makeup Among pathologico-anatomical conditions which may be responsible for rigidity and stenosis of the cervix are lues displacement of the es adhe sions and overlapping of the cervical lips

In the diagnosis fibrosis of the cervix must be kept in mind. The condition must not be mistaken for the patient s reaction to the early stages of labor or for active resistance to descent due to the para

caused by the pressure on the cervix If fibrosis is absent watchful expectancy together with the administration of sedatives is indicated Manual and instrumental dilatation and the use of weighted bags are condemned. For certain cases the authors recommend cervical incisions or varial or abdominal casarean section E L Connett M D

Balley II The Long Labor Am J Obd & Gys c 1028 2V1 324

Bailes states that long labor with its accompany ang acadesis and shock as spt to be a cause of sudden death So called anaestbetic deaths may possibly be explained on this basis. When labor is prolonged the acidosis increases hourly with resultant lower ang of the carbon dioxide in the blood and coincident lowering of the blood pressure Patients who show signs of acidosis such as bright redoes of the hips dryness of the skin and marked exhaustion should be treated for this condition before operation is attempted Morphine in doses of 3, gr telieves the acidosis by the rest it affords and thereby rates the carbon dioxide combining power of the blood Morphine should not be used in long labors for the purpose of allowing the patient to rest and then return to a stronger labor afterward but merely to prepare her for an operative delivery

If the labor lasts longer than twelve hours the patient should have regular feedings of high calons and easily assimilated food Glucose may be given intravenously When the systolic blood pressure is under 85 operative intervention should be pot poned until the reading is brought to 100 This may be accomplished by giving 350 ccm of gum glucose intravenously at the rate of about 4 ccm per minute and at a temperature of ros degrees !

Of all forms of delayed labor the one most dil ficult to treat is that due to so called primary mertia and rigidity of the cervix. Some obstetn crans believe that the Beck type of casarean ection is indicated in these cases but the loss of immunity due to increased exhaustion and acidosis with subsequent entrance of infection after rupture of the membranes and repeated vagunal examinations are contra indications. Probably it is better to insert a bag and pack the vagina with wef gauze deliver ing the patient with forceps when dilatation is

complete
The obstetream is directly responsible for the maternal deaths which occur in the conduct of labor When marked acidous is present together with a low blood pressure operative intervention should not be undertaken until the patient has been rendered a good risk for obstetrical surgery. This precaution may lead to a decrease in the number of sudden and unexplainable deaths occurring at the definition of the control of the control

Harris J W and Brown J H The Bacterial Content of the Uterus at Casarean Section im J Ob | & Ginec 1928 xv1 332

In an article published in February 10.7 the authors reported the clinical details of a bacterio logical study of fifty utern at existerian section. In twenty two bacteria of various kinds were found. In this article, the twenty two infected cases are reviewed in detail.

In order to insure freedom from contamination by the vaginal secretion all of the cultures were taken through the uterine incision. As soon as the child was delivered but before the hands or instruments were introduced into the uterus a sterile cotton covered swab was passed through the uterine incision and rubbed over the lower uterine segment care being taken to prevent contact with any portion of the uterus except that from which the culture was desired As soon as possible thereafter smears were made from the swab and then an inoculation was made into anaerobic and aerobic human blood agar plates anaerobic and serobic and dextrose-acid agar plates cooked meat sealed with vaseline anaerobic and aerobic human serum bouillon and aerobie lactose fermented bosillon containing bromcresol purple as an indicator. In no instance did the pri mary smears show bacteria which could not be grown and identified on culture. In all except one of the infected cases the puerperium was febrile but all of the patients recovered. In ten cases the in cisions healed poorly From eight of these cases either actinomyces pseudonecrophorus or beta hamolytic strentococci were i olated. One case in which the wound healed poorly yielded a pure cul ture of an anaerobic streptococcus of the gamma type which actively fermented all the test substances except mannite. In three cases clostridium welchis was found but there was no gross evidence of gas bacillus infection. No obvious relation was noted between the course of the puerperium and the pres ence of diphtheroid bacilli in the uterus

To sum up the cultures showed staphylococcus allous in nine cases staphylococcus aureus in two cases years in two cases clostridium welchi in three cases Doederlein's bacillus in one case acti

nomyces pseudonecrophorus in three cases diph theroids in twelve cases and streptococci in eighteen cases E L CORNELL M D

Gordon C A A Survey of Cassarean Section in the Borough of Brooklyn City of New York tm J Obst & Cynec 1928 xvi 307

Gordon collected a series of 1805 casarean sections from the statistics of thirty four hospitals over the period of five years from 1021 to 1026. In 914 cases the indication for the operation was contracted pelvis in 210 cases eclampsia and other tozemis of pregnancy in 117 cases antepartium hapmorthage and in 544 cases various other causes

In the first group the fetal mortality was 3 8 per cent and the maternal mortality 8 per cent In the second group the fetal mortality and also the maternal mortality was 6 per cent In the third group which included 68 cases of placenta pravia and 19 cases of accidental hemorrhage there were 30 fetal deaths a mortality of 25 per cent and 7 maternal deaths a mortality of 6 per cent.

In the whole sense of cases at cristrean hysterectomes were performed with a maternal deaths a mortality of raper cent. If a cases of rupture of the uterus with a deaths are deducted the maternal mortality of casarean hysterectomy was 0 per cent. The classical operation was done in 472 cases—273 with and rop cases without previous vaginal examination. In the first group there were to deaths and in the second group ay deaths. The lower segment operation was done in 122 cases—60 with in the first group there was a death, whereas in the second group there was a death, whereas in the second group there were a death, whereas in the second group there were 6 deaths.

E L CORNELL M D

PUERPERIUM AND ITS COMPLICATIONS

ttarris J W and Brown J II The Bacterial Content of the Vagina and Uterus on the Fifth Day of the Normal Puerperium Bull Johns Hopkinz Hosp Balt 1928 xim 190

The last that streptococci were present in the uters of patients suffering from very mild symptoms of puerperal sepsis suggested research to determine if it is possible for streptococci to be present in the ouerperaluterus without giving rise to any clini cal manifestations of infection In thirty normal obstetrical cases jutra uterine cultures were taken by means of Little's tube together with vaginal cultures on the fifth day after delivery The utmost precision of method was used Bacteria were found in twenty of the thirty cultures from the uterus but streptococci were present in no case. Of the thirty cultures from the vagina twenty two showed streptococci but in no instance were they of the aerobic beta hemolytic variety which is the etiolog ical factor in the majority of fatal cases of puerperal arfection

While bacteria of a sort not present in the fundus were abundant in the vagina no variety was found in the fundus which was not represented in the vag mal fora. From this st must be assumed that there is an upward extension of the bacteria from the valgina to the uterus doubtless through the capil lary lavers of fluid extending from the vulva to the uterine cavily but a probable that whatever organisms are present in the vagina at labor ascend into the uterine cavily but are rapidly, killed off by authors conclude also that violate the store cavily but are rapidly satisfactions of the control of the control of the control of the violate of the control of the control of the uterine cavily but are fifth day of the normal puerpenum without giving rise to chingial manifestations of infectations of infectations

GOODRICH C SCHAUTTLES M D

Goodall J R and Wiseman M Certical infections in the Puerperlum tm J Obil & Gynce 1028 xvi 339

The authors state that the high notifience of morbidity the frequency of subunvolution of the uterus and the common occurrence of thombophies bits especially in multipars are probably due to an attenuated infection which the vulvar seepine technique cannol reach. The frequency with which primary infection in the cervic early in the puer perium can be demonstrated seems to indicate that in many cases of mild morbidity the underlying cause is chronic cervitizis. E. E. Cosnett, M.D.

Watson B P An Outhreak of Puerperal Sepsis in New York City Am J Obst & Gyncc 19 8 xvi 157

Watson reports an egudemic of puerpeas sepsis occurring in the Stoane Hospital for Women Ares York City in January and February 2007. Dring the Stoane Hospital Stoane Hospital Stoane S

In 32 cases delivery was normal In 6 forceps were used and in 4 a casarcan section was per formed In 1 case in which there were thins versom was necessary In 7 cases no vaginal examinations or vaginal manipulation was done. In all of the others except 1 vaginal examinations was made once. In the 1 exception, the case of a patient delivered normally 3 vaginal examinations were made.

In a thorough investigation of the operating rooms and the personnel of the hospital it was discovered that so nurses and 2 attending surgeons and a hambly its steptocore; in the nose and thorat and a nurses had tonatilitis. One nurse developed a steptocorcus personnists but when she was operated positive to demonstrable primary focus of infection could be found. One interior on the service was also a streptococcus carrier and was tempography discharged.

The infected cases were solated and the delivery rooms were thoroughly cleaned and some of them were closed As cases of puerperal infector continued to develop the hospital was closed to it patients for a period of ten days from Februarita to February 24 and during that time the opening. Trooms were thoroughly funngated and repaired and the continue to the continue of the continue to the continue of the continu

The author was unable to determine from the data available whether the carriers brought the infection into the hospital or picked up the organic from infected patients. The latter may have been true in some cases. The occurrence of princip perture in some cases. The occurrence of princip perture in some cases. The occurrence of princip perture of the latter of the princip control of the entry for the hamolytic streptococcus out it that the vagina and the puerperal uterus but the finding of the organism in the vagina of nearly all infected of the organism in the vagina of nearly all infected

patients proved that this was the common portal. The particular streptococcus in this sense of infections was a very virulent one. With recognic death resulted in every case with a positive blood culture. The late appearance of streptococcu in the blood of most of the patients and the positiontum findings indicated a lymphatic dissemination.

In the treatment the author used antatroptoc cus serum in Jarge doses and quinte h byocchloride serum alone or serum and blood trains sons. Some of the patients were hencited he repeated small blood transfusions. In the movirulent cases no improvement resulted from are treatment. L L Constant M D

NEWBORN

Flagg P J The Treatment of Asphyrla in the Newborn Preliminary Report of the Practical Application of Modern Scientific Methods J in If its 1928 xc; 788

The author emphasizes that the obstetentian should be thoroughly familiar with the narrotry of the upper are passages as it appears as, had mithout its reflexes. Both in infants and in adults the prolem of scientific artificial respiration depends spot the case with which the farynx may be exposed and nutubated

The article contains five illustrations of apparatise used in the treatment of asph; at of the newborn The apparatus which is used by the author has the advantage that it can be operated by one person to the article of the article and article art

MISCELLANEOUS

Crew F A E The Biological Aspect of the Falling
Birth Rate Brit VI 1 1918 in 477
Roberts W J The Economic Aspect of the Fall
Inc. Birth Park Brit VI 1 1918 in 479

ing Birth Rate Brit V J 1928 is 479
Horder Sir T The Medical Aspect of the Palling
Birth Rate Brit M J 1928 is 483
Barrett Lady Indications from Statistics on the

Falling Birth Rate Bril M J 1928 H 485 CREW says that to the biologist there is nothing

remarkable and necessarily omnous in the past and present decline of the birth rate. It is the sign only of the approaching end of a population growth cycle most the end of a people or a culture. The law of the growth cycle postulate: that with no one and the growth cycle postulate: that with no one and the same cycle and an an especially limited area growth the fairs half of the cycle starts slowly but the actual martement per unit of time increases steady until the midpoint of the cycle it reached. After that point the increment per unit of time hercomes stead by smaller until the end of the cycle. There are two methods by which population reduction or descent in the cycle takes place. The first is the catastrolle method illustrated by epidemics war famme etc. occuring as the result of over population and the second a full of fecundity and fertility with increas and density of population.

It appears that conditions incident to overcroud ing depress fecundity. In the case of human fecundity this passive response to environmental discomfort can he replaced by a deliberate and conscious con tml of the reproductive rate. Therefore the ques tion arises as to whether the fall in the birth rate is due in the main to the spread of a deliherate and conscious limitation of fertility The conclusion that methods of birth control attain the end desired by those who employ them is inherently probable (mid dle and upper social classes) It is very doubtful however if birth control has affected the population growth cycle-the crude birth rate. The fall in the birth rate has been too gentle. It has proceeded with evolutionary steadiness and it has been universal Accordingly it seems that the fall is not the result of local disturbance but the expression of general bio logical factors The birth rate is falling now because this is the end of a population growth cycle

Though yet in its infance, the scenee of group hology has made important contributions regarding such lactors affecting the rate of population as (i) the proportion of multiple hirth stocks present (s) the frequency of opportunities for effective fer thatasition as indicated by frequency of o valution and ength of period of fertility and (s) hiving conditions and other factors affecting happiness. I ethaps the analysis of the proposed of the

Social advancement causes a decrease in the rate of reproduction because those who advance socially are presented with a greater variety of modes of self urpression and self indigence. If a large section of the pression and the

ROBERTS says that the science of economics does not yet offer a generally adopted doctrine of popula

tion which can be applied with confidence to actual situations

Appreheosion in regard to the diminishing hirth rate should perhaps he allayed by the concomitant decrease in the death rate. The decline in the birth rate appears to he differential in the sense that the restriction of births is confined chiefly to the middle and upper classes especially large families of undesized children heing found mainly among the poor The part played by hirth control in this dif ferential birth rate is probably not inconsiderable as hirth control is practiced chiefly by the higher social classes Alarm is felt in some quarters because of the failure of the hest elements of the community to reproduce themselves Regarding the urging of such considerations as motivating principles upon the The average individual masses the author says is not apt I suspect to pass immediately from his general preferences for the social and political future to any shouldering of a share-which to him per sonally is heavy but may turn out to he insignificant in the mass-of the costs of bringing about such a result accordance with his other inclinations and interests persistent group pressure and example and like causes may sometimes come to the aid of such ideal and remote aspirations

It is not surprising to find that the propagation of children can he urged as a duty toward a social group or members of that group While nations would prefer preponderance of their own types as would also religious and political hodies yet it is hardly possible for the individual or the family to bring into play a point of view sufficiently broad to encompass the relative values involved. It is the duty of the economist to take account of these political and social divisions and to seek to discover how they affect the conditions of the problem Practically we may feel ourselves urged to promote measures which tend toward family coherence under better conditions than those of the past or present example the advantages to the parents of child labor are not the motives most favorable to the rearing of large families yet they formerly furnished a certain economic justification

effects on cooduct and habit generally of a widespread dissociation of sexual gratification without the responsibility of parenthood. He is optimistic to the extent that he believes that men should know and choose rather than hichave as blind victims of impulse and despair. His disagreement with the older persimistic theories is evident from such state ments as this. The obstacles to the growth of population are not those lying in the miggardliness with which. Nature responds to humao labor and

The economist would like to inquire into the

cooperation and scenes and good will I do not think that our owe island to say nothing of what has been called our faith and the control what has been called our faith of the control what has been called our faith of the control what has been called our faith of the control when the control whe

that is to say habits and institutions whose origin and purpose is mastery and privilege and monopoly That justice should prevail over the whole economic community is seen to be the main condition on which the continuous unfolding of productive capacity depends

HORDER states that the question of population seems to be largely outside the doctor's sphere Dividing the question into its component elementsnatality mortality and migration-he finds little for the physician to assume in regard to the first and last of the three. In regard to mortality the physician's effort to prolong life is but a feeble contribution. In the question of saving life however and in the matter of improving health and thus increasing fertility the physician should be a defi nite factor If he is to enter the field on the side of the larger issues he should be taught a good many things not now included in his curriculum and his thoughts should be early directed to the vital general questions of the regulation of birth. A definite clear cut program should be envisaged for the physician's advocacy The study of contraception would be only a minor factor in these broad doctrines but even in this restricted department are found striking inadequacies. Here at least is a subject deserving of inquiry concerning which the doctor's oppor tunities for research and observation are abundant. and his findings paramount

LADY BARRETT assigns to the physician a position of major influence on the question of population She is of the opinion that the subject should and ean he taught in medical schools Regarding the influence of contraceptives and especially their in fluence in the upper classes she points out that there have always been variations in fertility in various classes. All factors including contraception tend to diminish the upper middle and textile classes only whereas the classes approaching desti-

tution are unnaturally prolific The author discusses general factors which affect the crude birth rate and calls attention to the fact that the artificiality of sex relationship dependent upon present social and industrial conditions gives a definite impetus to this unfavorable trend She states that obedience to natural laws and the restric tion of intercourse to the periods of natural desire of

both partners would answer wisely and well the requirement for an intelligent limitation of non-la tion The healthy and virile would procreate about dantly whereas the sick and poorly compared would not Such adeal restriction would seem practically unobtainable but physicians should advocate such a

In the author's opinion the least objectionable and most efficacious of the artificial methods of contracentson are the use of the sheath and the intoduction of medicated pessaries but all methods are grossly unsatisfactory

GOODRICH C SCHAUPPLER M D

Mitchell R The Presention of Maternal Mortal ity in Manitoba Canadia i M Ais J 1928 nr. 292

In a recent survey MacMurchy found that in the period from July r 1925 to July 1 1926 the mater nal mortality rate in Canada as a whole was 6 4 per I ooo live births and in the Province of Vianitoba 7 7 per 1 000 live births In Canada as a whole the most common cause of maternal death was sepsis This was responsible for 27 per cent of the fatalities Next in decreasing order of frequency were harnor rhage toxxmia and dystocia

The author finds that in Manitobs puerperal bæmorrhage claims by far the greatest number of victims He therefore urges more careful management of the third stage of labor. He states that cases of placenta przevia are often neglected being brought into the hospitals only as emergencies He believes that operative intervention is too fre-

quently performed and emphasizes that forcept should not be applied unless there are well defined indications for their use

Antenatal care has reduced purperal albuminum and convulsions to the minimum

The measures recommended by Mitchell for the reduction of maternal mortality are (1) strict en forcement of registration of births deaths and cases of sepsi (2) an investigation of every maternal death and of epidemics of puerperal sejisis in hos patals by the Department of Health and (3) an increase in the number of public health nurses to give better prenatal care and to educate expectant CARL H DAVIS M D mothers

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Caylor H D Suprarenat Renal Heterotopia Re port of a Case J Urol 1928 xx 197

Suprarenal recal heterotopia is the developmental usass inclusion of nortical and medulary suprarenal tassis beneath the capsule of the kidney. All or only a part of the suprarenal gland may be beneath the real capsule. The condition is frequently blatterial to occurs more commonly in males than in females and is usually associated with a thymicolymphatic and it usually associated with a thymicolymphatic and the programed of the constitution. It is of surgreat importance as it can not be recognized only the control of the con

Kidneys to be removed should be carefully seru tunied for this anomaly during and immediately alter operation because knowledge of the defect may prevent removal of the suprarenal gland during nephrectomy or it is removal is mevitable (as in the case reported by the author) the epinephrin sufficiency which may dee dop will be anticipated

Hertz J The Effects and Results of Suprarenalectomy in Gangrene of the Extremities (Effets et résultats de la surfénalectome dans la gangrène des extrémités) Bull et mêm Soc nat de chir 1928 la voja.

This is a report of seven suprarenal ectomies five performed for thrombo angulus obliterans one for semile gangrene and one for syphilitic endarteritis One nation who was treated for thrombo angulus

One patient who was treated for thrombo angusts obstreams or Burgers a disease remained well for twenty one months and another required amputation after two months. The three others suffered relapses after two and three months. The syphistic endarters matched for Burgers disease was react vated by the operation. The patient with semile criteria matched for the criteria of pain for right days. In all of the cate of Durgers disease was react and the cate of Durgers disease the operation relieved the pain immediately although only temporarily programly.

The author recommends supracendacto uy to case of sphultuc endartents and semile gangress because he believes that it relieves the atternal passon and thereby make possible a more conserva passon are thereby make possible a more conserva supracendactomy has the expense medicates that supracendactomy has the expense of the supracendactomy has the present the supracendactomy has the present of from thirty to thurty two acres derived from the exchact and renal pleusus and as Lenche has demonstrated an operation on the sympathetic as a long nout produces effects at a distance from that some other passons are the support of the present the support of the supracendation of the su

Hertz concludes that periarterial sympathectomy should be given a trial before suprarenalectomy is attempted as the effects of the two operations seem to be identical

ABBERT F DE GROST M D

Harris A Traumatic Rupture of the Left Kidney Case Report J Urol 1928 xx 193

Harms reports the case of a man forty four years of age who while standing on a crowded subway platform was suddenly pushed against an iron post sustaining an injury to his left side. The injury was, followed by harmaturia for ten days pain in the sade and hack and a feeling of weakness. After the patient had been kept in bed for twelve days the pain and tenderness were relieved. Twenty three days after the injury the urine was moderately cloudy and showed a trace of blood and pus. The findings of a general examination were negative except for moderate tenderness on deep pressure over the left hidney. There was no palpable enlargement of either kinder.

Cystoscopic examination showed the bladder to be normal both ureteral onlines were normal and were cathetenized with ease. On the left side a distinct hydrone-phrotic drop was noted. The phthalien test on both sides the Wassermann test and blood chemistry were negative. The appearant of urms from the night kidney, was normal, but the specimen from the left kidney, showed blood and pus cells. The appearance from both kidneys were negative for the therete backlist on culture, and the specimens from both kidneys were negative for the therete backlists on culture.

\ \text{caye examination showed the right kidney out ince obscured by gas in the howel The left kidney was definitely enlarged but smoothly outlined and normal in position. The upper gole was particularly mortal properties to be commal except that the upper caly cre had here obliterated and replaced by a large irregularly how the command of the control of the command of the control of the cont

this accessory pouch was caused by the trauma.

When the patient was last examined he was in excellent health and his urine was completely nega.

While the author recognizes the great recuperative and perparative power of the kidney be believes that an some cases mechanical defects may be followed after some time by infection or stone formation resulting ultimately in destruction of the organ life draws the following conclusions

1 A ureteropy elographic study should be made Knipfer A The Roentgen Picture of Horsesbee in every case of renal trauma after the subsidence of the acute symptoms. The time to investigate depends upon the symptoms and the judgment of the surgeon

The follow up should he continued for a long period in order to determine the incidence of second ary infection and stone formation Chronic infection without obstruction may continue for long periods without symptoms sufficient to cause the patient to consult a physician In the control of infection catheterization and lavage of the kidney may be of

The reparative power of the kidney is remarkable

4 Open operation is indicated only in the excentional extreme case of renal injury with uncontrol lable hamorrhage Infection following extravasation of urine or the formation of a hamatoma may require drainage

5 It is possible that an infected pouch sinus or sac not relieved by lavage might be removed by open operation with conservation of the kidney

6 An accessory pouch seen in the nyelogram must be differentiated from a solitary evet of the CLAUDE D HOLNES M D kidney

Babcock W W The Tolerance of the Aldney of Trauma and Infection Surg Chn N Am, 1928 VIII 701

Babcock reports two cases of recurrent nephrolithiasis. In the first case, that of a woman fifty nine years old a farge calculus was removed from the right kidney and drainage of the left kidney was done for hydronephrosis. A year later the \ ray showed stones in both kidneys Both kidneys were then opened simultaneously and four stones were removed from the left and three from the right kidney A year fater the left kidney was drained for pyelonephrous and a few months fater at was removed A year later five atones were again removed from the right side Fifteen years later five more stones were removed from the right kidney The nationt had eight kidney operations

The second case was that of a woman of twenty six years. When the patient was eighteen years old stones were removed from the right kidney and when she was twenty years old stones were removed Small abscesses formed an from the left kidney both kidneys and permanent tube drainage was in stituted on each side About six months later pus and calcult were removed from the left kidney and ultimately the left kidney was removed treatment the right nephrostomy wound gradually

healed

The author emphasizes three factors that favor the re formation of calcult (r) a blood clot remain ing in the kidney upon which a calcareous deposit occurs (2) dilatation of the pelvis or calyces and (3) particles of stone left at operation. He states that stones are best removed through the pelvis of MAURICE I MELTIER M D the kidney

Atdney (La sindrome radiologica del rece a femdicavallo) Radiol med 1928 IV 654

The author reports a case of horseshoe kidney which he was able to diagnose by simple rorates examination without pyelography. The lower poles of the Lidneys were pointed and extended obliquely toward the spinal column The lateral outline of the normal kidney is never so oblique. The two lower poles had the shape of ox horns directed toward the middine The hridge connecting the two kidneys could be felt against the spinal column

A shadow on the right side higher up than the foner pole was found to he due to the furrow where the bridge and the right kidney joined Frequently the bridge does not connect with the two lidners at the same fevel and the groove where it joins them can

be seen in the roentgen picture

As the direction of the horseshoe kidney is down ward anteriorly and upward posteriorly the tube may be melined a little in the ventrodorsal project tion A roentgenogram should be taken also in dorsal and ventral decubitus Sometimes the shape of the kidney is shown better in ventral decubitus ACDREY G MOROAN M D

Schillings M Horseshoe Kidney (Le ren en ler 1928 Louvain Societé Scientifique de cheval) Rengelles

The author reviews the cases of horseshoe honey reported in the literature up to date including sev eral of his own The references to American liters ture are unusually numerous. Many of the more typical roentgenograms are reproduced. Only the chinical aspects of horseshoe kidney are co sitered To those interested in the subject of renal anomalies this monograph will save much effort in the looking up of cases reported during the past five years DANIEL N EISENDRATH MD

Davis J E The Surgical Pathology of Mallorma

tions in the Lidneys and Ureters / Urd 19 8 XX, 155 The classification of renal abnormalities in general use today in which these anomalies are grouped

according to position number and form, was sug gested by Kuester in 1896 Abnormalities of position (dystopia) As a result

of inequality of growth the kidney may be higher than normal and the suprarenal body duplaced medially upon the Lidney pefvis. The author rites two such cases in which in nephrectomy the adrenal was removed with a fatal termination. He states that the possibility of medial displacement of the suprarenal on the kidney pelvis should always be boroe in mind when examination reveals high ros tion of the kidney together with perinephritis

In farge fetuses infants and young children it is not at all uncommon to find the kidneys in a low

position or one kidney loner than the other The most common positions of abnormally placed Lidneys are the bifurcation of the aorta the sacral promontory over the sacro diac joint in the diac fossa and in the hollow of the sacrum Ahnormally formed kidneys are quite frequently misplaced whether they are fused or separate A floating kid ney may constitute an obstetrical complication The right kidney is more apt to be found in an ah normal position than the left kidney

Abnormalities of number The presence of more than two kidneys is the rarest of all kidney malfor mations Absence of both kidneys is usually found in fetal monsters Maulon bowever saw a fourteen year old girl without kidneys ureters or bladder In this case the urachus was very large and long the umbilical vein was larger than that of an adult and since birth a urinous fluid had heen discharged from the umbilious In aplasia of the Lidney the ureter of the same side is also missing In hypoplasia there may be a ureteral formation with a small mass mounted on its upper end Absence of one kidney may be congenital the result of the blighting of a bud on one side or due to the destruction of one kilney by disease as a rule a disease causing

ureteral obstruction and pressure Ibnormilities of form Most malformations of the kidney begin in the early development of the ureteral bud and its surrounding metanephrogenetic cells The usual cause of horseshoe kidneys which con stitute 25 per cent of renal malformations is a change in form involving both buds. This fusion deformity is important because of the irregularity of the blood supply and the abnormal number and position of the ureters which may be responsible for abnormality of dramage. Anomalies of the uniter and pelvis include variations from the normal in the number of the ureters or pelves the type of fusion and congenital absence atrophy or stricture of the ureter The most common anomaly in this group is complete or partial duplication of the ureter

The most important congenital renal condition is the congenital polycystic kidney. This is charac terized by the formation of numerous and diffusely distributed retention cysts which are usually visible to the naked eye. The anomaly is often associated with other developmental stigmats It may be found at any age and is associated with cysts else where in the body most frequently in the liver The condition passes through three stages The first is the latent stage which may continue for a short time or for many years The second is characterized by subjective symptoms and objective signs chiefly a dragging down pain and hæmaturia and may con time for a few months or a few years. The third is characterized by uramic symptoms and may ex ter i over a few weeks or a few months jective symptoms from congenital cystic kidney are mainly renal insufficiency hamaturia pain and in The objective signs are a tumor mass in one or both Li iney areas increased blood pressure changes in the urine similar to those of interstitial nephrilis and a positive cystoscopic picture and history The pyelogram shows (1) flattening and obliteration of the major calyces (2) retraction and

broadening of the various major calyces (1) clongs tion or rounding of the true pelvis and (4) displace ment or obliteration of the pelvis CLAUDE D HOLMES M D

Potter C Pyclonephritis and Urethral Obstruc tion to I Sure 1028 v 286

Potter reports the case of a woman fifty five years of are who had had chronic ovelitis for about ten years Every catheterized specimen during this time showed pus Through self neglect the patient passed through many acute exacerbations of urmary tract infection diagnosed variously as malaria chills and fever influenza stomach trouble bladder trouble and hysteria. She usually changed her physician as soon as he advised a complete urological examination

The treatment given by the author consisted in the removal of foci of infection irrigation of the kidney pelves ureteral catheter drainage prolonged rest in hed, the use of urinary antisentics and colon bacillus mixed vaccine intravenous medica tion and a blood transfusion to overcome anymia and build up the resistance. After a month in the hospital the patient was allowed to go home but treatment was continued because the urine was still heavily loaded with pus and colon hacilli. Shortly after her discharge she had an attack of acute pain over the right kidney accompanied by a chill lasting thirty minutes nausca comiting and a temperature of roa degrees I

At operation performed first on the right side and ten days later on the left side the kidneys were found to he white twice the normal size and firmly bound down hy adhesions The ureters were patent

Decapsulation of both Lidneys was done A small incision was made in the pelvis after it had been wiped free from fat A straight Kelly forceps was then bored through the kidney substance at Broedel s line the location of the silent vascular area until the point protruded into the pelvis. Along the tract made by the forceps a small rubber tube was pulled through the Lidney The fenestrated end was left free in the pelvis. The tube was fixed in place by two sutures introduced through the Lidney cortex. The wound was closed in layers about the tube and one rubber tissue drain

Urine drained through the tube freely instillations of 10 per cent argyrol were introduced through the tube into the kidney pelvis. The bladder urme showed a large amount of argyrol for twenty four hours after each instillation. The tube was left in place for eighteen days. The patient showed marked continuous improvement and urinalyses over a period of a year were practically negative Constipation was controlled by agar and nuneral oil

Greenberg used a similar drainage procedure in the case of a man forty two years of age who had pain in the right lumbar region and complete anuna for twelve hours The left kidney and both testicles had been removed for tuberculosis eight years pre viously Cystoscopic examination revealed a stric ture in the middle of the right ureter which could not

be passed by a catheter. After the smertum of a time into the Ludney pelves through the trater made they a forceps pushed through the kidney at Broedel a limited unmany drainage occurred through and around the tube and improvement in the condition began ustain the telephone of the state of

Throme pyehits can be successfully treated by direct surgical drainage of the kidney pelvis and the instillation of an antiseptic solution through a tube

introduced through a tract bored in the least vascular area of the kidney

2 Chronic pyelonephritis can be successfully treated by the same procedure plus decapsulation after the manner of Edebohl

3 Even when it seems that the entire unnary tract except a part of one kidney is incapacitated life can be prolonged and the patient at least tem porarily restored to useful work by direct surgical drainage of the renal pelvis

J COWIN KIREPATRICE M D

Gutierrez R Non Surgical Renal Tuberculosis 1m J Surg 1928 v 99

Non surgical renal tuberculous is one of the most common and serious of kindey infections. The diagnosis is based in the presence of Koch bacilli in catheterised urine a positive unorgarbic examination and a decrease in renal function. In from 80 to oper cent in the cases the condition is at first unitateral. Early diagnosis should be followed by mephretromy. In most cases the infection is carried by the blood stream but in some it reaches the kind may be with the light plants or the hladder. The berie bacilli are often found in urine in the absence unitary organs. In one case reported by the author a secondary infection resulted from instruction at the urternopelicy uncture.

Bilateral renal tuberculosis is not frequent and is always associated with pathological lesions of one or more of the other genulo uniary organs. In advanced pulmonary tuberculosis the urinary Madder

18 always involved

In reporting musty three cases of blateral rend tuberculous Legieu stated that after the removal of the kidney with the poorest function the bladder symptoms often subside and the lesson of the remaining kidney is arrested or cured. In early cases the involved kidney should be removed at once. The author says that the secretion of urea in

normal quantity is a safe indication of a sufficient amount of kidney tissue capable of functioning. The Mayo Clinic ascribes more importance to the phthalein test. The determination of the urea secretion and the phthalein test should be combined with pyelography and guinea pig inoculation.

There are certain cases of renal tuberculosis in which surgery should not be applied the best results

being obtained from combined medical and unlogical treatment. These are cases in the advance stage with equal involvement of both sites and a marked decrease in renal function. Notifier, should be removed until the clinical data functional test and pselographic studies indicate its removal postively.

Tubertele hacillaria does not always mean tuber culous of the kidney. It may be due to a forcard tuberculous selewhere Partial nephercome were be indicated. Certain cases of polonephints with hydronephross and stricture or kink of the wetter should be treated cystoscopically. When a grow leann as evident in the pyslogram and there is absence or diminution of renal function the treat ment should be nepherectomy.

BENJAMIN F ROLLER M.D.

Hyman A Renal Neoplasms Am J Surg 19 8

Of ninety nine cases of renal neoplasms reviewd by the author 65 per cent were cases of hyper neohropma. Sixty three of the patients were between

forty and fifty years of age and seventy two of them were males

The mortality of renal tumors is between read 80 per cent. The symptoms are hemsture, pur tumor backache loss of weight unany diliedly gastro intestand daturbances and fever in fifteen of the cases reviewed mediatases were present with the patient was first seen. The secondary method the condition are codemn tensor. The description of the condition are codemn tensor. The description of the condition of the cond

Operation is continual cased when the tumor is stage and immove the natural there is the topic and desired the topic and the stage and immove the natural topic and a stage an

Papin M Ligation of Both Ureters Obstruction Relieved Gure (Ligature operatoric des dest uretères d'sob truct on guérison) Bill et mêst

See not deckr 1928 hy 1026 Clamping or ligating a ureter even for a short time usually leads to necros; and stricture but the author reports a case in which both ureters were

heated for fifty one hours without senous results. Following a total hysterectomy for cancer the patient failed to urnaite. Medical treatment in stituted on the supposition that the anura was reflect had no effect. After two days the suthor was consulted and in the course of a cystoscopy cather

terization revealed an obstruction of each ureter a few centimeters above the meatus

At laparotomy performed immediately under spinal analgesia the ureters were found to be in cluded in the ligature of the uterine arteries After removal of the ligatures indwelling sounds were placed in the ureters through small incisions made proximal to the obstruction

Urine entered the bladder within a few hours following the operation and after an initial polyuria the output became stabilized on the fifth day at 1 500 c cm Except for a mild left pyehtis which lasted several months recovery was uneventful Sounds passed from time to time showed no stenosis

of the ureters

Throughout both interventions the patient's con dition remained good. There were no symptoms of nitrogen retention or signs of hydronephrosis Tour months later the findings of urmary analysis and the Ambard constant were normal

ALBERT T DE GROAT M D

Fullerton A The Diagnosis of Urcteral Calculi Brit M J 1928 11 377

The author presents an account of his experience in the diagnosis of fifty proved cases of ureteral calcult Eighty per cent of the calcult were made up chiefly of calcium oxalate. In the remainder excent in one case phosphates predominated over urie acid. The sharp projections on most calculi cause hamorrhage from the ureter Pain is caused by increased peristalsis due to the irritation of the calculus and increased tension in the Lidney pelvis due to partial block of the ureter

Rarely does a calculus cause complete obstruction of the ureter Anuria of the affected side may be of reflex origin. In 70 per cent of the cases reviewed there was reflex polyuria with diminished specific gravity of the urine from the affected ureter. In these cases of unilateral diuresis the jets followed one another more rapidly on the affected side than on the opposite side. The specific gravity was

measured by glass beads The chief signs and symptoms of ureteral calcula are discussed. According to Papin and Ambard, the pain is pyche in origin It may be of great diag nostic aid or very confusing depending upon its location and direction of radiation. In the cases reviewed Irequency of micturition was not a coo stant symptom Rectal tenesmus was an occasional complaint Inflammators signs may be present to association with constitutional reactions such as an increase in the temperature and the pulse rate and a leucocytosis The urine may contain blood pus and bicteria A physical examination without a complete urological examination may easily fead to an incorrect diagnosis because of the variety of the symptoms and findings \ tone in the lower end of a ureter may frequently be felt by rectal or vaginal examination

Lxamination with the \ ray is one of the most valuable procedures for diagnosis \arrous shadows

that are seen must be differentiated by stereosconic views taken with an opaque catheter or opaque fluid In several of the cases reviewed calcified areas in the perirenal and periureteral fat made the roentgenogram confusing

In about 40 per cent of the cases the ureteral orifice had become sinuous oval circular or irreg In the majority cystoscopic examination showed redness small hemorrhagic splashes and cedema around the ureteral orifice. In four cases the stone was seen at the ornice and delivered

I EDWIN KIRKPITRICK M D

BLADDER URETHRA AND PENIS kincaid II L A Bacteriological Study of the Puerperal Bladder Am J Obst & Gyncs 1028

Kincatd has made a bacteriological study of the nuerneral bladder in fifty eight cases. In fifty one cases the patient had not been catheterized previous to or at the time of labor. In the remaining seven catheterization was done at the time of delivery and

the first specimen was rejected In the first group of fifty one cases a positive culture was obtained at the first catheterization in four (92 16 per cent) and at subsequent catheteriza tions in SI per cent of the cases No symptoms of cystitis were noted

The organisms recovered were relatively non pathogenic They included the staphylococcus albus diphtheroids and the streptococcus lacticus. The colon bacillus was rare being found in only 3 4 per cent of the cases From these findings the author draws the conclusion that there is little danger of so called catheter cystitis when the catheterization is carefully performed

The constant presence of colon bacilly in the urine during pregnancy or the puerperium suggests the possibility of pathological changes in the urinary system particularly pyelitis

IV 104

In the two cases of exsarean section in which urmary cultures were made the results seemed to be the same as in the cases in which delivery was effected by the normal route. This was true all of of the few cases of togermia associated with preg nancy and labor E L CORNELL M D

Chute A L Tumors of the Bladder im J Surg 1928 V 217

In cases with a single small papilloma of the bladder fulguration through a systoscope is the method of choice In cases of multiple papillomata Inlguration may be tried but in refractory cases open operation is advisable. In all cases periodic evstoscopic examination should be made for a con siderable time after fulguration

The only curative treatment for a tumor of the bladdec of any size or of the infiltrative type is open urgical removal with a wide margin

Chute ascribes local recurrences to malignant tis sue left at operation Interference with renal funcbe passed by a catheter. After the meetino of a tube into the kidney pelves through the tract made by a forceps pushed through the kidney at Broedel's hie unnary drainage occurred through and around the tube and improvement in the condition began within well-to hours. The patient had lumbar drainage of urine the ternainder of his life. If he hed about two vears after the operation and died from miestimal obstruction due to extensive intestinal tuberculosis

The author draws the following conclusions r Chronic pyelitis can be successfully treated by direct surgical drainage of the kidney pelvis and the instillation of an antiseptic solution through a tube introduce I through a tract bored in the least vasco har area of the hidney

2 Chronic pyelonephritis can be successfully treated by the same procedure plus decapsulation

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BENJAMIN F ROLLER, M.D.

Hyman A Renal Neoplasms Am J Surg to 5

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by the author of per cent were cases a significant parameter the patients were believe forty and fifty years of age and sevent; two of them were males

The mortality of renal tumors is between 70 and 80 per cent. The symptoms are hamatuma pin.

tumor backache loss of weight unnary difficults gastro intestinal disturbances and fever. In fitters of the cases reviewed metastases were present when the patient was first seen. The secondary manifests tions of the condition are cedema of the abdomen and legs pigmentation and hypertension The di agnosis is nided by the discovery of tumor cells in the urine and by the \ ray findings In some ca et cystoscopy and functional tests may be of as miant Operation is contra indicated when the tumor is large and ammovable and adherent to the spine and dusphragm or extends into the vena cana Deep roentgen ray and radium treatment before and after operation seem to be of no avail The diease usu ally kill in three years if operation is not performed The usual surgical treatment is lumbar nephree tomy To guard against metastasis the renal vent should be ligated il possible hefore the attempt is made to Iree the kidney Half of the patients who survive the operation by three years surcumb before

Papin M. Ligation of Both Ureters Obstruction Relieved Gure (Ligature operators des deut uretères de betruction guérion) Bill el min Suc nat d'hi 1918 lv 1916

five years

BENJAMIN F ROLLER M D

Clamping or ligating a ureter even for a she that une usually leafs to necross and structure that the author reports a case in which both ureters were highest for fith one hours without serious rest. It following a total historicolomy for cause the following a total historicolomy for cause the following a total historicolomy for cause the structure of the structure of the structure of the structure of the supposition that the animal was reflex had no effect. After two days the suthor use consulted and in the course of a systoscopy value.

other form of treatment in the majority of cases As compared with expectant treatment it shortens the period of incapacity by 50 per cent. In over 80 per cent of the cases it shortens the time of involution more effectively than any other type of treatment except possibly adolan therapy. It is followed by recurrence less frequently than any other

form of therapy except mercurochrome treatment Next to epididymotomy aslan is most effective in relieving pain and shortening the period of hos

nitalization and the involution time

Mircurochrome stands next to solan in the relief of pain but while it shortens the period of involution somewhat as compared with expectant treatment it does not materially reduce the period of confinent in the hospital

Scholl A J Primary Adenocarcinoma of the Epididymis J Am M Ass 1928 Et 560

Scholl states that primary solid tumors of the epididymis are rare. Among those of malignant type carcinoma is particularly infrequent.

The case reported in this article was that of a man trenty two pears of age who sought treatment for pain in the right inguinal region and a swelling of the right tests. Fourteen months previously the right tests had been severely injured and three months later a dull pain hegan in the region of the right signand ring. Nine months later the right side of the scrottum hegan to swell At the time of the patient's admission to the hospital the scrottum was sensitive and constantly pandid. There was no evidence of previous urethral infection and no huttory of fever or serotal infalammation.

At examination the right half of the scrotum was under standard and fluctuant and transmitted light. The testis was in the center of the fluid Tapping devo 66 oc cm of clear straw colored half. The testis was timefelt to he smooth rounded half. The testis was timefelt to he smooth rounded half the testis was timefelt to he smooth rounded sharped prodular and integral in Adaptive for colleged modular and integral in Adaptive for acute extensive subsectious epidalymits was made X ray examination of the clear was negative for X ray examination of the clear was negative for

tumor and for tuberculosis

Operation was done under regional angesthesia. The testis was found to be normal but the epidod mis was nodular and red. As microscopic examination revealed malignancy the testis with its coverings and the cord were removed. Uneventful recovery fol

lowed

Three months later a mass 2 cm in diameter was found below the lower angle of the incisson and at a second operation the stump of the cord was excised at the internal ring and the cord tumor mass and all surrounding insuers including the inguinal glands and subcutaneous issue were removed. No en larged inguinal glands were found. After the

operation X ray therapy was given over the lower portion of the abdomen and the area of recur rence

Four months later the patient became dyspnexic and cyanotic and 4 theres of blood stained fluid were removed from the right side of the chest. Subsequently a rentgenogram revealed a mass about 6 cm in diameter in the region of the hilum of the lung. One week later a second tapping drew off 2 liters of find. Thereafter the chest was tapped and the control of the control of the chest was tapped and the chest was tapped to the chest was tapped and the chest was tapped and the chest was tapped to the chest was tapped to the chest was tapped and the chest was tapped to the c

Histologically the epididy mal growth and the mass removed at the second operation were similar Sections showed a moderately cellular fibrous stroma surrounding large numbers of irregular or elongated spaces completely filled with a dypical epithelial cells with a distinctly adenocarcinomatous arrangement. The diagnosis was adenocarcinoma of the epididy mis

The negative \(\) ray examination of the chest made at the time of the first operation precluded the possibility of an extensive primary focus in the lung and the time of appearance and the type of the symptoms indicate that the condition was primary in the scrotium. The tumor might possibly have arisen from a testicular rest in the epidodymis but the extensive adenomation type of the growth is very different from that characteristic of testicular tumors.

MISCELLANEOUS

Mckhann C F Pyuria in Children The Usa of the Cystogram im J Dis Child 1928 xxxvi 315

The purpose of this article is to stress the importance of the cystogram in the investigation of chronic pyuria in children. In the author's opinion a cysto scopic examination should he made only after all chinefal laboratory and \(^1\) ray studies bave failed to reveal the source of the pus and the child has been under observation for about its imonths.

Cystography is of great aid in the demonstration of certain types of obstruction ureteral reflux and irregulantly of contour of the hladder. In a normal child the cystogram shows the outline of a well filled bladder with no irregulantly of contour and no passage of the opaque fluxd into either of the ureters. In 20 per cent of children with pyuma of long standing it shows a reflux. When one ureter is filled the infection is said to be most marked on the side of that ureter.

Cystography can be done quickly and easily with out anasthesia and without the danger of shock The author cites several cases

MAURICE MELTEER M.D.

only palliation is possible

tion is probably an important factor in the fatal outcome Radical treatment cannot be attempted in all cases of tumor of the bladder as in many instances

Cases in whi h the bladder has become a solid indurated mass are best left alone provided there is

no considerable retention Another type of case in which nothing is to be

gained by operation is that in which the patient complains of very severe pain referred to the leg or Luce This condition is seen most often in cases with a mass in a lateral wall of the bladder which has directly invaded the tissues of the pelvis

In most cases of tumor of the bladder too far advanced for removal the operation which commonly gives relief is cystotomy and drainage

Patients treated for bladder tumor should be kent under observation for a considerable period of time particularly those with growths of the popullomatous type as these tumors show a tendency to recur and the recurrence may often be kept in check for a long time by fulguration of the superficial growths as they appear on the bladder surface

Louis Gross M D

Markoff N The Formation of a Urethra from the Bladder Following Its Complete Destruction in a Woman (Contribution à l'étude de la re tau ration de l'urêthre cher la femme et de sa formation avec la vessie en cas de destruction complète) Gynte el obst 1923 zvin 6

The case reported was that of a Russian peasant woman who was married at sixteen years of age The patient's first labor was difficult and lasted three days. On the fourth day a dead fetus was extracted with the forceps Three days after delivery the patient was catheterized and on the fourth day incontinence of urine began. On her admission to the hospital two and a half months later a bladder fistula surrounded by scar tysue was found on the anterior wall of the vagina. The entire wrethrs and must of the anterior wall of the vagina had been destroyed The uterus was small atrophied and displaced backward. It was reduced with difficults The patient had not menstruated since delivery

Operation was performed under novocam spinal When the bladder had been entirely freed from the surrounding cicatricial tissue a small incision was made directly beneath the chitoris Kocher's forceps were introduced into it and an opening was made beneath the clitoris and sym physis considerably higher than the normal opening of the urethra A finger was then introduced into the bladder and a protrusion made on its anterior wall Then by means of a loop of silk attached to the protrusion the wall of the bladder was pulled down into the canal that had been formed This canal was incised at the end and sutured to the orife e made beneath the chtori

After the operation the external appearance of the genitalia was normal. The patient was able to

retain her tirine when walking standing or line down and for periods ranging from four to six hours Her general health is now excellent and the restr formed urethra functions exactly like a normal urethra AUDREY G. MORGAN MD.

GENITAL ORGANS

Baker T The Value of Vas Injection in Chront Genital Infections Based upon a Senes of Seventy Five Cases J Urol 1018 ZZ, 21

The author has tried was injection for stenlization Or disinfection in seventy five obstinate cases of di. case of the seminal vestiles. His te hingu is the used by Thomas Belfield and o hers He dorbe the cases in groups according to the cerenty and

character of the pathological changes He concludes that medication of the cornal vendes by vas injection will effect a cure in about 40 per cent of cases of seminal vesicle infe ton An equal number of cases however will requi other treatment such as prostatic massage the use of sounds and irrigation 1 as injection should be re served for cases which have resisted other tires of treatment for several months. In Baker's opinion, the danger of sterult as less when was p priore is done than when vasotomy is performed ELMER FE & M.D.

Garvin C H Chronie Prostatites Okto State II I 2018 XXX 618

The author states that in cases of ore britis in which the discharge persists for longer than four weeks in spite of treatment the prostate and vesicles have probably become infected. He calls attention to the fact that non specific infections of the prostate are much more common than is generally believed, He summarizes the generally accepted methods of

In conclusion he states that a standard of cuts which does not include a complete urethroscopic examination of the urethra together with microscopical and cultural examinations of the expresed secretion of the prostate and vesicles is incomplete

HET BY L. SANFORD M.D.

Stone E. A Comparison of the Results of Various Treatments for Acute Gonorrhotal Epididy mitis J U of 1928 xx 24

The author states that in acute gororrhoral epi didymitis expectant treatment a one is insufficient Sodium sodide gives no better results than expectant treatment alone Dalhermy ma, obviate incapic aty in some cases but does not have much effect on the pain and gives the poorest results as regards involution Calcium chloride and gonolin were not studied sufficiently long to narrant an opinion to garding their influence on involution This Sto e has discontinued the use of gonolin he recommends a further trial of calcium chloride

Epididymotomy gives immediate relief of pain in a large number of cases and earlier relief than any

touch over most of the body and varied with the lime salts bone atrophy erosion distention of the duration of the disease

The cardinal symptoms are pain aching and soreness induced or aggravated by movement of the spinal vertebræ and associated most commonly with sneezing straining at stool and coughing (Dejer

ine s sign) and the subject s usual routine activity The localization of the symptoms depends upon the region of the spine that is involved Involvement of the second and third cervical vertebræ produces headache soreness and burning at the occuput radi ating to the vertex or the temples

Involvement of the fourth to the seventh cervical vertebræ eauses pain in the shoulders or aching and stiffness on the outer side of the neck and up and down the back of the neck and pain radiating down

the outer side of the arms When the second to the fifth dorsal vertebræ are affected there is pain over the precordium radiating in an anginoid manner toward the shoulders and armpits and down the inner side of the arm often to the little fingers These symptoms are frequently attributed to heart disease

Involvement of the sixth to the ninth dorsal vertehrm eauses pain hurning tingling heaviness stabbing and gas in the epigastrium which

suggest a digestive disorder The symptoms of involvement of the tenth to the twellth dorsal vertehra are usually attributed to appendicitis or in women to involvement of

the uterine adnera Involvement of the upper lumbar vertebra causes pain and a burning sensation beginning over the upper part of the thigh or behind the iliac crest or at the sides of the thigh and radiating into the area over the incumal beament or downward across the front of the knee

In cases with involvement below the third lumbar vertebra there is pain over the sacrum which radiates down the anatomical distribution of the first and second spinal roots RUDOLPH S REICH M D

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Wallace J O The Diagnosis and Treatment of Surgical Tuberculosis in Early Childhood Atlantic M J 1928 XXXI 927

In the diagnosis of surgical tuberculosis in early childhood a carefully taken history is of importance Pain is a variable symptom but of decided signif scance Reflex muscular spasm is usually present and implies the muscles adjacent to the affected Joint

Laboratory measures of aid in the diagnosis are (1) examination of aspirated fluid by microscope culture and animal inoculation (2) skin tests (3) biopsy test (the author condemns biopsy tests of joints which have not broken down) (4) a blood count and (5) the Wassermann test

The roentgenogram is of great assistance. The characteristic roentgen findings are the absorption of

joint and in old cases hone proliferation In the differential diagnosis transient arthritis

rheumatism arthritis deformans juvenilis acute epiphysitis and syphilis must be ruled out

Essentials in the treatment are proper fixation good food open air and correct posture. For the treatment of spinal tuberculosis Wallace has devised a frame with a hinge arrangement which produces hyperextension at the site of the disease. He emphasizes the value of heliotherapy and states that in hone or joint tuberculosis in children surgical in terference is rarely advisable

RIDOTHI S REIGH M D

Brown C J O The Diagnosis and End Results of Tuberculosis of the Hip Joint Med J lus tralia 1028 11 106

Of the seventy one cases of tuberculosis of the hip reviewed by the author twelve were doubtful eases in which the condition was monarticular and chronic In eight of the latter the hip is now fune tionally normal and in three there is only slight limitation of movement A good functional result was obtained also in sixteen cases of undoubted tuberculosis in fourteen of which the joint is ankylosed. In nine cases the result is unsatisfactory because of healing with gross bony destruction of bone subluxation and deformity. Thirteen patients died of meningitis and generalized tuberculosis and twenty one are still under treatment. Of the latter thirteen have been treated for four years and show destruction of the head of femur and acetabulum seven show improvement in the condition of the hip and six have amyloid disease

In hip disease without & ray evidence of hone destruction the condition may or may not be tuber culous and complete recovery is likely to occur. In cases with destruction of the articular surfaces an kylosis with from 30 to 35 degrees of flexion gives the best result ELVEN I BENEREISER M D

Taylor 3 The Treatment of Tuberculous Disease of the Hip Glasgow M J 1928 CX 129

The author reviews a group of cases of tuberculous disease of the hip observed over a period of eight years in which the treatment was similar to that carned out at Berck sur Mer The measures employed included carefully graduated irradiation by both natural and artificial sunlight and partial immobilization of the hip joint. In cases admitted with deformity a special extension apparatus was applied for gradual correction. In cases with disloca tion or fixation of the head forcible manipulation was resorted to and fixation applied Although this method is held in disfavor by most authorities Taylor considers it safe. When complete osseous ankylosis had resulted correction was obtained by osteotomy

The results tabulated by the author show an increased number of movable joints and a decreased amount of shortening RUDOLPH S REICH M D

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS, MUSCLES TENDONS ETC

Cooperman M B Gonorrhoeal Arthritis Am J Surg 1928 v 241 Cooperman reviews 44 cases of gonorrhoeal arthri

its in young children and as cases in adults. The inflants were five or six weeks of age, and their joint complications were of three or four weeks undered and practically all were supportation. Not inflants were districted and practically all were supportation. No district was allowed to the cases and the cases were tred at first but were descontinued because no benefit was noted following their use. The joints were treated by the application of casts repeated appartions arthritoriny and physiotherapy. Six of the inflants were duckwayed after three months. Six of The Traveley were treated for suchecom months and it is an extracted for suchecom months and it is an extracted for suchecom months.

still under treatment after three years. In the 26 adults the monatteniar infections were the most treated surgically during the acute stage there was only slight in pairment of function. In the acute stage the best methods of treatment are aspirations and arthroto meet to releve the intra astroidar tension combined.

with temporary fixation in casts

During the subsiding stage of the disease, physiotherapy is indicated Joints showing advanced pathological changes are best treated with appliances to prevent the development of deformities ELEVY I BESIGESSIE V.D.

Meyer A W Spontaneous Dislocation and De struction of the Tendon of the Long Head of the Biceps Brachit Fifty Nine Instances 4rth Surg 1928 x 11 493

The author states that when the tendon of the long head of the bucep brach is adsocrated if probably undergoes considerable wear but even when it remains in its normal position and in an otherwise normal shoulder joint it may be subjected to went the believe that prominents of the supraghenoid tubertile in the contraction of the supraghenoid properties to completely with the linguismost generated lines at the best distribution of the articular many completed effective than of the articular completed effective than of the articular completed sentencian completed sentencian

P.-tt.L of complete distriction of the abcommon but be author has collected thirty nine cases of delontion and twenty of complete absence of the articular portion. In all of the cales of absence of the articular portion. In all of the cales of absence of the articular portion the tendon had obtained a secondary attachment to the floor or sides of the sulcus or to the humeral disphysis detail to the fesser unlessify Meyer as of the opinion that some cates in which the duvided tendon obtained a secondary static ment to the darphysis distal to the letter thereopy it may have been dislocated and have played not to the toberosity, before at was divided. He believe this may be true also of cases in which the tendos attached to the floor of the solvas in the region of the lesser; tuberosity as at a not necessary for the lesser; tuberosity as at it and necessary for the tendor to the control of the lesser to the solvas in the platitively rough face of the lesser is berosity to be well-end by we are lesser in berosity to be well-end by well.

The greater frequency of absence of the lata articular portion of the endoon on the right some particular portion on the red on the right should be due to right handcases and the samerals greater frequency of adapcation on the lith size in be due to the fact that greater tension is put to the tendoon and the easymal articularity and particular the comparisons requiring the claims and particular with a fork in which the left hand east as Information and the left humerus passes into maked latter location and absolution at each claim.

A study of the anatomy of the harners capular articulation shows that normal conditions of the humeroscapular articulation favor di location of the long head because until the arm is somewhat abducted the tendon curves forward enorching the shippery and sloping rounded auriace of the upper anterior portion of the head of the humerus The nature of the anterior wall of the sulcus especially the presence or absence of the bony ridge termed by the author the supratubercular nige -is sa important factor in dislocation When the arm is slightly rotated laterally the undersurface of the tendon hes fully on the floor of the sulcus be as lateral rotation is increased its anterior margin is forced against the antenor wall of the sulcus tare cally the part formed by the lesser tubemsity and the capsular attachment proximal to it

ANTBONY F SAVA, M D

Countier I. The Radicular Syndrome in Hyper trophic Osteo-Arthritis of the Spine Colv form a & N o 1 Med 1929 xmr 152

The radicular syndrome is very learner to the arberts of the spine. It is described by Degense is arberts of the spine. It is described by Degense is a consistency of the constraint of the spine. It is described by with allow their distribution of must feel inchion which allow their distribution that the primary disease process in the spinal root. In the cases revered by the author tests with a cotton trift pain point best, cold or purposing demonstrated that the set of changes were usually bilateral. The most constitution of the control trift and changes in thermal sensation. The disturbances ranged from a small arms also. The disturbances ranged from a small research approach to the process the sensor of hypersections to a dulled sensorum to held

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Theis F V Ligation of the Artery and Concomitant Vein in Operations on the Large Blood Vessels Arch Surg. 1928 2vil 244

Ligation of the artery and the concomitant vein in traumatic surgery is recognized to be of great chinical value.

Roentgen ray examination soon after operation shows that the development of the vascular bed is most marked when the vein is simultaneously occluded. This immediate benefit may be the deciding factor in maintaining the vitality of the limb

In cases of gradual orclusion of the arterial tree it was found that the collateral vessels had had an opportunity to develop and that the final vascular bed was greater when the vein was patent

Hittian L Shacktelon M D

Morton J J and Penrse H E Jr The Tem perature Effect of Popliteal Vein Ligation in Thrombo Anglitis Obliterans and Arterios le rosts inn Surg 2928 Travim 233

In recent years it has been well established by both clinical and expressional endence that luration of a large artery should be accompanied by ligation of its companion vein. This procedure decises the impedence of gangeries and its followed by improved functional ability and an interase in the residual arterial pressure the venous pressure the minute volume flow from the end of the divided aftery and the pripileral arterial circulatory bed

It was reasoned by the authors that if gangrene from arterial ligation can be prevented by occlusion of the vein impending gangrene from arte in discusse might be prevented in the same way

Ligation of the pophical vein was therefore done in cases of a retenoseleous and thrombo anguits. The sutface or skin temperature was determined by means of an amorod thermonemeter and the deep temperature by means of a thermocouple galvanom operature to the state of the time of the state o

to as iong as four weeks after the operation.

In fixe of seven caves a definite increase (from a In fixe of seven caves a definite increase (from a Carlotte of the Carlotte

The authors suggest that the temperature increase after the ligation may be due to a disturbince of the vasomotor mechanism of the blood vessels or to the shunting of the blood through superficial vessels. Money A. Story M.D.

De Massary E. and Flandrin P. Rupture of an Aneurism of the Abdominal Aorta into the Duo denum (Ančursme de la aorte abdominale issuité dans le duodenum). Buil et mêm Soc méd. d. hôp de Par. 2028. 5/19. 1222.

The authors report a case of aneurism of the abdominal aorta which evolved without symptoms until it ruptured into the intestine

The patient a man of fifty three years who had been a broycle racer entered the bospital because of a sudden hamorrhage from the mouth and anus

Ile had had no gastric disturbances but had suffered from attacks of sciatics for several months and three years previously had been under treat ment for gumma of the testicle. The syphilis which was contracted twenty years before had been in differently treated.

Frammation revealed a large pulsating tumor of the abdomen over which a thrill and systolic bruit were noted. The systolic blood pressures of the legs taken at the ankle showed a difference of 40 mm

For five days there were no further bemorrhages and the patient s condition improved. Then a small amount of blood was passed by bowel and on the sixth day the hamatemests recurred.

During the evening of the seventh day the patient suffered violent pain in the abdomen and presented all the signs of acute anamia. He died the following programs:

At adopy, the small bowel was found filled with blood Behndt the pertinents and over the bowel lumbar vertebra: there was a rounded tumor a distance of the terman portion of the sorts which had redded deeply, the bod or of the vertebra: Higher up the walls of the acuts became indistinguishable and the walls of the acuts became indistinguishable and by an evolution of the section of the communication with the duodentum was found to communication with the duodentum was found.

BLOOD TRANSFUSION

ALBERT F DE GROAT M D

Visymeord W \ and Piney A Some Effects of \ Radiation on Blood B it J Radial 19 3 1 257

This report is ha ed on experiments performed on rabbits. The ventral surface of the animals was exposed to rays of rather low wave length—0.375 A. The factors were 90 ks. 2.9 ma a distance of 24.5 cm and practically no filter. With these fac

FRACTURES AND DISLOCATIONS

Taylor R T Fracture Dislocation of the Shoul der The Relation of Soft Parts to Restoration A New Method of Treatment Arch Surg 1028 XVII 475

The author reports a case of fracture dislocation of the proximal end of the humerus in which the frac ture extended through the surgical neck and the muscle spasm of the supraspinate and infraspinate rotated the proximal fragment or humeral head through an art of 180 degrees so that its fractured

surface was directed unward After unsuccessful attempts at reduction under anæsthesia the patient was put up in a Balkan frame flat on his back. The spring and mattress were made additionally firm by cross slats Projecting from under the mattress beyond the left side of the bed for about 2 or 3 ft was a board 5 ft long and 4 in wide To the upper surface of this board at its outer end a similar piece of board 4 by 4 in was nailed at right angles and at its center was surmounted by a vertical pulley By raeans of this rough board which was held by the mattress and the patient's weight in any position in which it was placed by the surgeon horizontal traction over the pulley was made at any desired angle of abduction by means of adhesive straps and a spreader attached to the upper arm The foreirm with adhesive straps applied from elbow to hand and the upper arm supported with a sling with a spreader were suspended from the overhead bars of the Balkan frame with appropriate pulleys and counterbalance weights About 5 lb each were used as counterpowes for sus pension of the forestm and arm and in abduction at the side of the hed from 10 to 15 lb were used as the case progressed

After reduction by means of this apparatus a cast was applied from the hand to below the crests of the

About ten weeks after injury the patient was able to return to his work ANTHONY F SAVA M D

Fracture and Distocation of Holderman II II the Sternum inn Sirg to 8 laxsvin 452

The author states that fractures and dislocations of the sternum are rare. They occur most frequently in mining communities The most common causes are direct blows on the chest compression and crush ing of the chest hyperflexion of the spine asso ciated with fractures of the vertebral column falls and the falling of a heavy weight on the chest In some cases however the condition is the result of indirect violence and muscular action The most common type of sternal fracture is a

transverse break at the juncture of the manubrum and gladiolus In the great majority of cases the displacement is such that the lower fragment hes partially in front of the upper one sometimes over riding it The fracture is usually simple

The prognosis is good in uncomplicated cases but decidedly poor in those with complications. In the

uncomplicated cases repair with the formation of a bony callus usually takes place in from four to egit weeks

Operative treatment is frequently justifiable bit m most instances the reduction can be accompished by manipulation and maintained by an advent plaster swathe Hyperextension of the spine with the shoulders held back may be necessary Scudier states that the patient should remain in bed for three weeks and should wear a Taylor back brace

for two months Holderman reports three cases

ROSERT C LOYERCAN MD

Dickson F D Fractures of the Ankle J An M Ass 1928 vet 845

Direct violence plays a very unimportant rule in fractures of the ankle The types of indirect violence catting such fractures are (s) external rotation causing torsion fracture of the fibula and occa im ally rupture of the internal lateral ligament (1) abduction causing rotation of the astragalus resulting in supture of the internal lateral ligament and fracture of the fibula (3) adduction which tears of the external malleolus and causes fracture of the fibula and occasionally a fracture of the interest malleolus by rotation of the astragalus and (4) an upward compressive thrust on the tibial monate causing separation of a triangular frament from the posterior surface of the tibia lateral and backward displacement of the astragalus and fracture of the fibula

Fractures of the ankle may be classified as fol

lows A Fracture of the malleoli

1 Isofated (a) fibula (b) internal malleolis 2 Combined (a) low bimalleolar witho tds

placement of astragalus B Fractures of the weight bearing surfaces of the tibia

t Isolated (a) posterior marginal fractures, (b) anterior marginal fractures

2 Combined anterior or posterior marginal fractures associated with fractures of the malleob

The diagnosis of fracture of the audle is based 62 a history of injury a localized point of tendemess over the regions affected effusion and outward displacement of the foot the degree depending upon the amount of displacement of the ast agalus in creased lateral mobility and positive roentgenographic findings

Reduction should be effected as soon as pos the under complete anesthesia and the foot immobilized in a plaster cast in marked inversion. Ra ly fixs tion in the normal position is demanded Follow ing the reduction other roentgenograms should be

The author uses a breaked cast At the end of the second week the anterior half of the cast is removed and light massage and toe movements are begun RUDOLPH S REICH M.D.

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

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In five of seven cases a definite increase (from a fraction of 1 degree to 3 degrees) in temperature was noted after the ligation. The increase was especially marked when the after, was not entirely excluded and was felt to be pulsating. The cause mil significance of this phonomenon is not clear and significance of this phonomenon is not clear and significance of this phonomenon is not clear to the contract of the power of the properties of

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BLOOD TRANSFUSION

Mayneord W V and Piney A Some Effects of X Radiation on Blood Brit J Radiol 1928 1 257

This report is based on experiments performed on rabhits. The ventral surface of the animals was exposed to rays of rather low wavelength—0.375 A. The factors were 90 ks 20 ma a distance of 24.5 cm and practically no filter. With these far

tors the full skin tolerance dose was 540 R and was delivered in twenty eight and three-tenths minutes When large doses were given the effect uniformly

seen was a persistent lymphocy topenia. This effect was immediate In one case the leucocytes were reduced to 600 cells during the administration of the dose (seven hours). This marked fall was soon fol lowed by an increase in the neutrophiles. The increa e persisted but before the death of the animal the neutrophiles were exceeded by the monocytes. On changes were noted in the number of red cells.

Smaller does (500 R) were tred in two ways—in divided does administered over a period of twenty three days and in a single does. Both methods caused a preliminary drop in the number of Jympho cytes and a secondary increase in the number of propho cytes and a secondary increase in the number of neutrophiles. Divided does caused a more intense and prolonged disturbed but so monocytos—the control of the control

Pacha K. R. Evidence That There is a Hæma topoletic Hormone in the Blood of Anæmic Children (La véntication de I hormone hématoportique dans le sang des enjants anémiés acci dentificment) I resie méd 1918 axvi 950

It has been shown experimentally that a harma topoletic hormone develops in the blood of laboratory

animals after animon has been brought about un facility. The author reports several clinic acwhich demonstrate that there is in a horio an the blood of children who are recorning financiar. One case was that of a ten year old girl with saven from analysotemass and another that of a ten yrel old boy with animon endently due to tuberulaing the same of the neck. In the former the enth proyte count was 1 500 000 and in the latter it wist 100000.

Both patients were given hygienic and dietetic treatment and extract of sheep's spleen In adhitor the girl was given treatment for the anky lostomises Before the disappearance of the ova from the stock the girl's erythrocytes increased to 4 200 000 and after the disappearance of the ova they increased to more than 6 000 000 This showed that the blood was rich in hæmatopoietic hormone in the cise of the boy the crythrocytes had increased to only 2 300 000 after fifty days of treatment a fact stinb uted by the author to inhibition of hamatopoits hy bacterial toxins The boy was therefore given in pections of from 0 5 to 1 cem of the serum of the giel's blood which was evidently rich in hamatepotetic hormone After three injections the number of erythrocytes had increased to 3 800 000 at the end of a month it was 4 600 000 and at the end of two months it was 6 500 000

AUDRES G MORGAN MD

SURGICAL TECHNIQUE

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Doughty J F Rattlesnake Bite California & Il est

Rattlesnakes are found in many parts of the United States and the hazard of rattlesnake bite is increasing because of the increase in outdoor recrea tions The author reports two fatal cases of rattlesnake bite and reviews nineteen cases collected from the literature. The physiological actions of the verom are classified and the mechanism of the bite is briefly described

Prevention of rattlesnake bite is possible to a great extent by the wearing of leather puttees The non specific methods of treatment discussed are methods which attempt to withdraw the poison from the part ligation and efforts to destroy the poison

in situ by chemicals

Med 10 8 XXIX 247

Specific treatment by snake antivenom depends for its effectiveness upon the specificity of the antivenom for the species its early administration and a lequate dosage

The author's conclusions are as follows

Local treatment is inefficient but ligation is a valuable first aid measure

2 Up to the present time the mortality has de pended largely upon the amount of venom injected

There is a specific antivenom In the discussion the mortality in sixty seven cases reported in Texas in which antivenom was not used is given as 343 per cent. In eighty three cases treated with antivenom it was 6 per cent

Rice T B and Harvey \ K The Therapeutic Use of Bacteriophage in Suppurative Condi tions J Lab & Clin Med 1025 xiv 1

Rice and Harvey used bacteriophage filtrates in the treatment of fifty cases of infection due to staphylococcus aureus staphylococcus albus bacil lus coli and bacillus pyocyaneus Most of the strains of bacteriophage were isolated from mixed sewage and then trained to activity by heing grown with the particular organism against which lytic activity was desired so that there was active though not necessarily complete lysis of the auto genous culture in ritro. The best results were ob served when the best lysis was obtained

a rule the bacteriophage filtrate was applied directly to the lesion as a wet dressing or as an restillation into a sinus an abscess cavity or the urmary bladder. In two cases the material was

injected into an unopened abscess

The authors attribute their good results to (x) direct destruction of the offending organism by the bacteriophage (1) an antivirus action (3) a bacteria

antigen content or (a) a combination of these prop erties. The conditions treated were boils carbuncles abscesses ulcers bed sores and urmary infections RICHARD F HERNDON M D

Handley W S The Treatment of Gangrene Rest M J 1048 11 501

The vasomotor surgery of gangrene is reviewed from the historical standpoint Leriche is cited as having reported successful results from sympathec tome in causalgia after war wounds certain painful crises preceding gangrene caused by obliterative endarteritis Raynaud s disease certain cases of pain ful stump muscular spasm secondary to war wounds trophordems, and trophic picers

The vasodilating effect of periarterial symnathec tomy is transitory disappearing in from three to four weeks Leriche does not recommend his operation for sende gangrene that has already developed

The author prefers alcohol injection to Leriche's operation. He claims that by means of it he has been able in certain cases to avert threatened gangrene or to arrest the spread of sende gangrene

The effect of alcohol injection is immediate vaso dilation which lasts for a year or more. The main criticism of the alcohol injection is that it is impos sible to predict in which cases the method will be beneficial Anatomical variations also present diffi culties

Vasomotor surgery can be applied before gan grene has set in I FRANK DOLGRAY M D

ANJESTHESIA

Donovan R Beretervide J J and Rechniewski C Meningomy elitis in a Heredosyphilitic Pa tient Following Spinal Anæsthesia (Meningo-

mielitis en un heredo específico consecutiva a una raqu anestesia) Ret Soc de med interna y Soc de finel ross ty 57

TÁT

Unfavorable after effects of spinal anasthesia con sist usually of headache vomiting backache and rigidity of the neck. Aseptic meningitis with harmor thage and purulent meningitis are very rare. A preexisting or latent meningeal affection, such as tuber culous meningitis may be lighted up as a result of spinal anasthesia

In the authors case of syphilitic meningomy elitis developing after pinal a asthesia there had been no symptoms of lues whatever before the intraspinal injection. After the injection paraplegia developed below the point of injection with clinical symptoms of meningomy elitis and all the biological reactions of syphilitic meningitis Considerable improvement followed the administration of antiluetic treatment although the serological reactions remained positive WILLIAM R. MEEKER M D.

tors the full skin tolerance dose was 540 R and was delivered in twenty eight and three tenths minutes

When large does were given the effect unaformly seen was a persistent lymphocytopena. The effect was immediate. In one case the leucocytes were reduced to foo cells during the administration of the dose (seven hours). This marked fall was soon loi lowed by an increase in the neutrophies. The in lowed his particular to the control of the control o

Smaller doses (500 R) were tred in two ways—in divided doses administered over a period of twenty three days and in a single dose. Both methods caused a preliminary drop in the number of Juppho cytes and a secondary increase in the number of Juppho cytes and a secondary increase in the number of Juppho cytes and a secondary increase in the number of Juppho cytes and a secondary increase in the number of secondary increase in the number of secondary increase in the number of secondary in the number of s

Pacha N. R. Evidence That There Is a Hama topoletic Hormone in the Blood of Anomic Children (La vinfaction de hormone Menato poétique dans le sang des calants anémés acci dentéliment) Peris mil 10 8 xxxxx 1920.

It has been shown experimentally that a hæma topoletic hormone develops in the blood of laboratory annuals after anemus has been brought about anficially. The author reports serval client least which demonstrate that there is such a homeon the blood of clindlers who are recovering function. One case was that of a ten year-old got with azena from analy isotomics as and another that of a to ayold boy with anemia endeathy due to therefore of the grant of the need. In the former the epitoryte count was 1 500 000 and in the latter it was 1 500 000.

Both patients were given hygienic and detetic treatment and extract of sheep s spleen In addition the girl was given treatment for the ankylostomians. Before the disappearance of the ova from the stock the girl's erathrocytes increased to 4 200 000 and after the disappearance of the ova they increased to more than 6 000 000 This showed that the blood was rich in hamatopoietic hormone. In the case of the boy the erythrocytes had increased to only 2 800 000 after fifty days of treatment a fact attributed by the author to inhibition of hamatopoies by bacterial toxins The boy was therefore given in jections of from og to r cem of the serum of the garl's blood which was evidently rich in hamatoposetic bormone After three injections the number of erythrocytes had increased to 3 900 000 st the end of a month it was 4 600 000 and at the end of two months it was 6 cco ooo

AUDREY G MORGAN M D

studies suggest that age is a factor of primary im portance

To determine the part played by age in the mor tality rate from cancer Eggers compared the trend of the cancer mortality rate with the trend of the mortality from conditions designated as degenera tive diseases which ordinarily take their toll from

the same age group as cancer

When the mortality curves were plotted for age periods the curves for cancer mortality and degener ative diseases entirely paralleled each other in a straight rising curve up to 1918 the year of the in fluenza epidemic. Then after a slight drop the cancer death rate resumed its normal course whereas the death rate from degenerative diseases dropped much further in 1018 and in 1023 was still fluctuat ing and had not yet reached its normal course

The drop in the mortality from cerebral bæmor rbage and apoplexy was of short duration The drop in the death rate from organic heart disease was somewhat longer In cases of chronic nephritis the mortality still showed a reduction in 1024 The findings therefore indicate that the death rate from cancer and the combined death rate from the other usual diseases of advanced age with the exception of chronic nephritis show an almost strictly proportion ate rate of increase for the twenty five year period studied

The author helieves that if some of the increase in the cancer mortality were due to increased accuracy in diagnosis there would have been an increase in the mortality of cancer over that of other diseases of similar age distribution since cancer would prohably be more frequently missed than erroneously diagnosed as being present. There was no indication of such an increase during the twenty five years of this report HARRY C SALTISTEIN M D

GENERAL BACTERIAL PROTOZOAN, AND DARASITIC INFECTIONS

Stewart F W and Haselbauer P Virus Neu traffzation Experiments with Rosenows and Pettit a Antipoliomyelitic Sera J Exper Med 1025 xivm 440

During the past decade three types of anticolio myelitis sera have been employed in the treatment of acute anterior poliomyelitis. These are (1) the sera of convalescent human poliomyelitis (2) sera from horses immunized against the streptococci supposed by Rosenow and others to be related to those causing poliomyelitis and (3) the Pettit serum pre pared at the Pasteur Institute The last mentioned product is a serum from sheep or horses supposedly immunized against poliomyehtis virus by repeated intravenous injections of emulsions of spinal cords of monkeys suffering from poliomyelitis

From their experiments the authors reached the following conclusions

I The Rosenow antistreptococcus poliomy elitis serum concentrated or unconcentrated does not neutralize the virus of poliomyelitis in mankeys

2 The Pettst antipoliomy elitis horse serum neu tralizes the virus only occasionally

Immune sheep sera prepared according to the method of Pettst have not neutralized virus even when the normal sera of the same animal have effected neutralization

Such neutralizations are difficult to explain and should not be confused with the constant virus neutralizing action of both human and monkey convalescent sera

5 Experimental evidence affords no hasis for the use of either the Rosenow or the Pettit serum in the therapy of poliomyelitis SAMUEL KARN M D

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

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Sugiura K Studies upon a New Transplantable Rat Tumor J Cane r Research 1928 In 122

The author's findings with regard to a new trans plantable rat surroma are summarized as follows

I A relationship existed between tumor growth and the age of the host. The ages of the animals greatly influenced the results of transplantation.

a Sucking and very young rats proved to be the most favorable hosts for the continue I growth of the saccoma In the sucking rats the incidence of tumor regression in the positive transplants was 93 per cent whereas in the middle aged and old rats it ass 87 per cent. However the percentize of claics and their rate of growth were the same whether the bosts were very young or old

3 The essential difference between the histolog ical structure of the transplanted tumors (after successive generations) and the original tumor was an increase in the size and number of the sarcoma cells

eessive generations) and the original tumor was an increase in the size and number of the sarcoma cells

4. Rats immune to one type of tumor may or may not be immune to another kind

5 The transplantability of the rat sarcoma is completely destroyed by immersion in a Locke Ringer solution or a buffer mixture solution with a hydrogen ion concentration of 2 3 or 4 for twenty

four hours at a temperature of 3 degrees C

6 The growth capacity of the surcoma was de stroyed when the tumor was heated for thirty mautes at a temperature of 43 degrees C but the tumor cells were still viable after an exposure of twenty minutes to a temperature of 45 degrees C

7 The viability of the fresh sarcoma was com pletely destroyed by dehydration

8 The tumor producing substance of the rat sarcoma is not filterable Joseph K Narat VI D

Reinhard Buchwald and Tucker Some Further Experiences with the Production of Colloidal Lead or Satts of Lead J Cancer Reserved, 1928 20 160

The Bredig method of arcing between lead electrodes in an aqueous solution of gelatine and cal

crum chloride 3 relds a colloidal solution of metalic lead

By substituting various other chlorides such as those of iron sochum and potassium the author were able to produce more concentrate solution. The best solution with respect to concentration with stability was obtained by the use of potas im chloride. This solution was employed for most of the work.

The methods of preparing collor lai solutions of lead and salts of lead are described. Determinations were made of the influence of artistry and the amount of protectant on the resulting concentration of lead.

JOSEPH K. NEMI V.D.

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The cathode rays correspond to beta rays from radium but are available in much larger quantities in general they are slower in velocity than the beta rays and freer from the penetisting \(\bigver13\), or games

rays from experiments it is evident that in centra tumors which are not too far advanced he exhibited to the state of the state time. The benefit will effect of the cars are generally limited to the earlier free the state of t

The cathode rays injure skin ti sue when they are applied directly to it but apparently do not produce mahemant, growth

The treatment of one tumor does not affect an other tumor in the same animal the action of the cathode rays being direct ratherthan systemic locent K NARY M D

Eggers II E The Increased Mortality Rate of Cancer J Ca cer Rese th 1925 x11 9

The reported mortality rate of malignant deserincreated from 63 oper 100 oon 1 topo 10 of 10 per 100 oon in 2004. The usual interpretation of this increase is that many more propel have surveiled an age at which they become susceptible to cancer but two other factors are generally added both of which are impossible to evaluate exactly namely in creased diagnostic accuracy on the part of the medcal profession and the more regular procurement of medical attention for the aged "Willow thought that the increased rate was due almost wholly of increased diagnostic accuracy but later statistical studies suggest that age is a factor of primary importance

To determine the part played by age in the mortality rate from cancer. Eggers compared the trend of the cancer mortality rate with the trend of the mortality from conditions designated as degenerative diseases which ordinarily take their toll from the same age group as cancer.

When the mortality curves were plotted for age periods the curves for cancer mortality and degener ative diseases entirely paralleled each other in a straight rising curve up to 1918 the year of the in duenza epidemic. Then after a slight drop the cancer dealt nate resumed that normal course whereas the death rate from degenerative diseases dropped much further in 1918 and in 1921 was that lightuist.

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- the method of Pettit have not neutralized virus even when the normal sera of the same animal have effected neutralization
- a Such neutralizations are difficult to explain and should not be confused with the constant virus neutralizing action of both human and monkey convale cent sera
- 5 Experimental evidence affords no basis for the use of either the Rosenow or the Pettit serum in the therapy of poliomyelitis Santer Kann M.D.

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EDITOR'S COMMENT

N unusually large number of abstracts of par ticular interest to the orthopedic surgeon will be found in this month's issue of the INTERNATIONAL ABSTRACT OF SURGERY OSGOOD (p 271) again calls attention to the frequent occurrence of compression fractures of the spine and to the fact that they may easily escape recog nition unless a careful roentgenological examina tion is made which includes both anteroposterior and lateral exposures He points out the fact that in from 70 to 80 per cent of cases the fracture in volves one of four adjacent vertebra-the two lower dorsal and two upper lumbar-and repeats what Auemmell has emphasized so often that the first symptoms of the injury may appear after a period of comparative well being during which the possibility of spine injury may remain unsus nected

Campbell's review of the end results of arthroplast of the Ance with particular reference to twent't two cases in which from four to more pears have elapsed since operation (in 260) shows what splendid results may be obtained by good surgery or in unusually difficult cases. One statement is of particular interest—that operation following excellent in the case of the case but that the same operation following strulent osteomy this steedings through the joint was always.

Jones recommendations as to the treatment of Oslimams is schamic contracture (p. 204) carry as do all his statements the weight of authority it has coussiently used mechanical extension of the joints with the aid of sphirts and states that the theorem with operative measures behalf little expension with operative measures behalf the expension of the property of the sandal little expension with operative measures behalf ment of the fever wouldes from their origin—sa a logical procedure. In this connection Bauley 3 report of such an operation (p. 67) slightly modfied and followed by an almost perfect result is of particular interest.

unsuccessful

The frequency with which stones may be present in the common duct with only mild symptoms of biliary colic or even without symptoms the fact that infection to the common and hepatiducis may give n e to typical symptoms of stone

in the ducts and by inflammatory obstruent cause considerable oblation of the commondart and the frequency, with which pancreating are cutted with gall bladder disease are some of the points emphasized by Labey Judd and Joness asymposium on the surgery of the blie passe ser centily presented before the Vassachusetts Medical Society (p. 235). Of 837 operations personnel in Labey 3 clinic for disease of the blany tract 153 (nearly 20 per cent) were performed on the ble ducts.

In connection with this symposium Tanmana experimental studies on degs with halay fisting programs with halay fisting programs of the anaman which descloped so frequently after doctared with or gail brought about reviews of the anaman which descloped so frequently after doctared to the common bed duct and that it has feeding was begun immediately after the formation of the fistials the anaman did not appear. He found further that the subcutaneous administration of Vitamin D had a ery Isvanible effect upon the osteomalicia which develops shirt a few weeks in dogs with bilanty fit the

The frequency with which gastropiums sket as some of autopasts on patients we whom a gastropiumostom; had been preformed indicates as Hurst and Stewart has portied; (e. 26) that this complication probably consimular more frequently than is generally between Particularly significant is the fact that of fair two cases in the sense reported in which as 4 st in more months intervened between the operation and the patients sheath pipunal or gastropium divers were found in a 2 per centure.

Gibson's review of 127 casts of acute perforation of the atomical and douberum (p. 23) acroll is acroll is study of the advances of the past ten year of the advances of the past ten year. Poster and Inglis report of a case of gan, home realcoss of the internal inter (p. 23) and the Finneys report of a successful case of partial fer internal particular particular particular particular section of the pancreas (p. 23) are some office to reviews of particular interest in the fell of addominal surgery. The importance of the stamentoned though the original article is verhinely exploranced as self-evodent to the surgood familiar with the present day status of the surgery of the pinneys.

INTERNATIONAL ABSTRACT OF SURGERY

MARCH, 1929

LANDMARKS IN SURGICAL PROGRESS

By IRVING S CUTTER M.D. Sc.D. Criticiso Dean Northwestern University Medical School

RESECTION OF THE SUPERIOR MAXILLA-HORATIO GATES JAMI SON

M OST writers credit Joseph Gensoul (1797-1858) of Gensoul (1797-1858) of the major control of the major portion of the superior mavilla Opening the antrum was an operation of fair frequency in the captienth century and this some times included removal of portions of the bone Even as early as 1693 Acoultus of Breslau practiced a partial resection of the jaw

In 1 Century of 1 merican Med tine! Samuel D Gross says

America may justly claim the honour of hiving led the way in entirpations of the upper jaw. Small pirtions it is true hid been chipped off in the eighteenth and even in the eventeenth century but the first grand and difficult the first grand and difficult to the set in the set of the s

operation of the lend of which we have an knowledge was performed in 1850 to 13th Horston of Indianos of Bullimore who took away nearly the natire bone one use the root of the antirum alone bring left as it was not involved in disease. Research with the state of both bones a still greater trumph of suspections of both bones as still greater trumping host performed in 1851 by David E. Rogers of New Action of the State of New Action of New



HORATIO GATES JAMESON

Jameson's ease was a tumor of the left superior maxilla in a male aged twenty six. The patient had first applied to Dr. Jameson in December 18:0 but did not return for operation until the eleventh of Noxember 18:20 the tumor having grown rapidly during the interval. The ease report was published in the American Affectical Recorder of 18:17. The article is illustrated with a view of the patient prior to operation showing the deformity occasioned by the tumor. Jameson is second examination of the patient disclosed that

The base of the tumour extends from the middle of the pulatine arch to the piery goid process in I over all the space which had been occupied in the gums. The teeth

are long since forced out of their ockets and are seen sticking in different and distant parts of the tumour. The base is so ever short that no very distinct view of it can now be had. But from a clear recollection of its situation last vear together with a careful examination. I was of opinion and was joined in opinion by m. friends Diotors Chapman and Harper that the lines just mentioned included the catent of its attachments.

In spite of the manifest difficulties and the lack of antecedent knowledge of the procedure Dr Jameson performed the operation at one sitting

EDITOR'S COMMENT

N unusually large number of abstracts of par ticular interest to the orthopedic surgeon will be found in this month's issue of the INTERNATIONAL ABSTRACT OF SURGERY OSGOOD (p 271) again calls attention to the frequent occurrence of compression fractures of the spine and to the fact that they may easily escape recog nition unless a careful roentgenological examina tion is made which includes both anteroposterior and lateral exposures. He points out the fact that in from 70 to 80 per cent of cases the fracture in volves one of four adjacent vertebra-the two lower dorsal and two upper lumbar-and repeats what Kuemmell has emphasized so often that the first symptoms of the injury may appear after a period of comparative well being during which the possibility of spine injury may remain unsus pected

Campbell's review of the end results of arthroplasts of the kine with particular reference to twenty, two cases in which from four to nine years above elapsed since operation (p. 969) shows what splendid results may be obtained by good surgery even in unusually difficult cases. One statement is of particular interest—that operation following acute py ogene infection of a single knew was successful in from So to 94 per cent of cases but that the same operation following virtuent osciences that the same operation following virtuent osciences.

Iones recommendations as to the treatment of Volkmann is schemme contracture (p. 26) earny as do all his statements the neight of authority is do all his statements the neight of authority is the has consistently used mechanical retreasion of the younts with the aid of splants and states that he has never had occasion to regret it. He has had title experience with operative measures but be lieves that Page and Platt's operation—detach ment of the filtern muscles from their organ—is a logical procedure. In this connection Bailey are port of such an operation (p. 6) slightly modified and followed by an almost perfect result is of particular interest.

The frequency with which stones may be present in the common duct with only mild symptoms of bilary colic or even without symptoms the fact that infection in the common and hepatic ducts may give rise to typical symptoms of stone

in the ducts and by inflammatory obstration, cause considerable dislation of the common duct and the frequency with which punceratis assected with gall bladder disease are some of the points emphasized by Labey Judd and Jonenia symposium on the surgery of the bile passages in cently presented before the Masschweits Modi call Society (p. 235). Of 837 operations performed in Labey as Chune for disease of the bilary last 153 (nearly as per cent) were performed on the bile ducts.

In connection with this symposium Tammans experimental studies on dogs with blain Sabis (in 245) is of particular interest. He found that feeding with or call brought about regressor of the anxenia which developed so frequently siter obstruction of the common bide duct and that it this feeding was begon immediately after the formation of the fistical the anxenia due to Peper He found further that the subcutaneous administration of Vitamin D had a ver fuvorable effect upon the osteomalacia which develops after a few weeks in dogs with blainy fistile.

The frequency with which gastrogional user as should no a serior of autopaies on patients or whom a gastrojejunostomy had been performed indicates as Hurst and Stewart have pointed either the state of the serior much more frequently than is generally believed. Particularly significant is the fact that of fort two cases in the sense reported in which at least more mouths intervened between the operation and the patient's death jejunal or gistrojiyanal utless were found in 52 per cent.

Gabson a review of 1.32 cases of acute performance of the stormach and duodenum [p. 12] and croft a study of the advances of the past ten years in the treatment of acute appendixts [p. 35]. Poste and Inglas report of a case of gangloonum matosis of the entersimal tract (p. 2) and the finneys report of a successful case of partial section of the pancreas [p. 17]) are some other reviews of particular interest in the field of addominal surgery. The umportance of the strength of though the original article is very banely epitomized as self evident to the surgon familiar with the present day status of the surgery of the pancreas [p. 18].

Ast V Case f Tumou of the S persor Jose By II RATIO G. Jane m M D f Balt m ee

James & directed, ag d be tiw ly s y ra appli die me co th first dy of D mb 1819 acco t of e t m r t ated on the f e I my note book I f d then oh evat James U derstood e young m of as oth! un country hab t ka bas a larg tumo on th m x ll per of obs t th rice months duration It mm d from th t real o d low r edge of th gums a d fleeward grad ally t ded aw e the middl of the sho mid bine p hig upw d tow d the re a dform gaco e derahl tumen the e e denfth ma ! lary bone It also ext d d upw rde a d bachward of g the it mal if of the a per or jw th pre of that m r now filed bout helf th pal tine arch som whith low th & th of est ad doof the ckw rdas t be contact with the v I m pradulum pal ta The whol f range a tame which w ld probably we go obcat two ount a Th case h bece mustaken

Fac im le of first para raph of Jameson's original report

Dr Jameson visited Europe and read an essay on the non contagiousness of yellow fever before the Society of German Naturalists and Physicians which met in Hamburg The year 1835 found him associated with Daniel Drake Samuel D Gross Landon C Rives and James B Rogers as a member of the faculty of Ohio Medical College at Cincinnati This move proved un fortunate and because of his wife s health he was compelled to return to Baltimore where he failed to fully regain his earlier surgical pre eminence In 1854 he removed from Baltumore to his birth place in Pennsylvania His death occurred during a visit to New York City on August 4 1855 Because of Jameson's strong position as a

surgical leader he was vigorously opposed by tertain members of the medical profession and the report of a trial in which he sued Dr Frederick L B Hinsey for defamation of character 1 supplies details of a persecution rarely recorded in medical annals It appears that two scurnlous pamphlets had been circulated against him misrepresenting his published reports and denying in certain features the authenticity of his operations 41 the trial the allegations of the pamphlets were wholly disproved and Dr Jameson was given a complete vindication from these most cruel attempts to involve him in ruin

Ameng his many outstanding surgical achieve

ments may be mentioned several cases of reduc tion of dislocated shoulder joints of long standing hatton of the external iliac artery a successful tracheotoms for the removal of a water melon seed lodged at the bifurcation of the trachea and amputation of the cervix for carcinoma (per in MislEccorl J y 5 q



Plate showing external appearant e of lumor (accompanying original article)

formed in May 1824) 2. He was an early experimental investigator in the use of heatures of animal origin and his work strongly reinforced that of Philip Syng Physick' who in 1814 urged the employment of ligatures of kid and chamois He also wrote on hibotomy extraction of the lens removal of a tumor of the orbit hernia fiscula in any stricture of the rectum vellow fever and many other subjects

Horatro Gates Jameson is entitled to enduring fame not only for his original and in many in stances bold surgical procedures but as Dr Marcy pointed out for his pioneer experimental studies on the ligation of blood vessels and his proof of the absorption of heatures of animal ongu

hand mk spety (Nort in t liking aPh 1 765 8 7

Buffith fills C I mum by II ty O Marcy MD ath h girl I Cynec i gwl I wation V A MA to 7

The operation is described in Jameson's original report as consisting of four stages

First-Ligation of the left carotid in which a

buckskin ligature was used Second-Exposure of the tumor

I would have cut directly in the direction of the greater zygomatic muscle as a matter of choice but in consequence of the mouth's being greatly dis torted the incision began a little nearer the nose and terminated about the origin of that muscle This incision was made by a single stroke of the knife and was conveniently performed without touching the tumour by my holding up the lip on one side of the knife while an assistant held up the other The labral and facial arteries bled freely as though no obstruction had been put upon the vessel below 1 proceeded to take up the superior portion of the facial artery but it was soon perceived that the hamorrham would be of short duration. The membrane of the mouth which connects the superior lip to the gums was next divided by one stroke of the Luife on to the nose -a second stroke cut down that portion of the buccinator muscle which is at tached to the upper jan. We had now some confirmation of the opinion which we had had of the extent of the attachments of the tumour but there was nothing like a pedicle or cervix all was firm and unvielding. Having now brought the tumour as much as possible into view without having done any injury to the parotid duct I proceeded to remove the tumour

Third-Deep dissection

The tumour being now prests well emptied of sts blood by pressing it with a considerable degree of violence it was more distinctly seen that the base of the tumour extended along the palatine arch nearly to the velum pendulum paliti the tumour however had forced this structure deep into the throat The incision was deepened by two or three bold strokes and all thus exterpated except that part of the tumour which wa attached to the ptery gold process-this part was got at with considerable difficulty but was removed with very little delay

Fourth - Suture of slin flaps linen sutures

Three months subsequent to the operation Dr lameson summed up the condition of his patient as follows

From this time he has been gradually improving in health and the swelling of the parts diminishing under the application of the vegetable caustic applied two or three times a week. And at the pre ert time nearly thice months since the opera tion there is no appearance of a new growtn velum pendulum palati is quite free the part from which the tumour was cut is rapidly a saming a healthy appearance resembling the gums in structure His health is excellent no pains remain and so far as we can forsee there is little or no probability of a return of the disease

The case operated upon by David L Rogers is reported in the Acu Fork Medical and Physial Journal for 1824 The extensive character of Rogers operation may be noted by the followin. excerpt from this report

An incision was made first through the islicum of the upper lip which was dissected from the temour and alz of the nose so as to turn both portions of the lin over upon the cheek. The second inc in was to detach the castilaginous portion of the septim marium from the top of the tumour. After ex racing the first molar tooth on each side a fine saw wa used which readily divided the superior maxillars bone including the palatine process the two in cisions meeting at the palatine suture after saving through the puncipal bones the tumour was ea il removed although it extended much farther hack than was at first anticipated. It was found neces any during the operation to remove the two inferior turbinated bones a part of the septum nanum the somer and a part of the right antrum

It will be noted that the patient in each case recovered and that each operation antedated that of Gensoul of Lyons

Horatso Gates Jameson was born in York Pennsylvania in 1,18 His father Dr Davi! Jameson a graduate of the University of Edin burgh emigrated to Charleston South Carolina in 1740 later removing to York Pennsylvania where his death occurred toward the close of the eighteenth century Dr David Jameson was an active practitioner and in addition took a leading part in the military affairs of the colonies service as lieutenant-colonel or volunteers during the French and Indian War He was the medical preceptor of his son who began the achie trac ne of medicine in 179, when seventeen years of age After successive residencies in various Pennsyl tania villages Horatio Jameson removed to Baltimore in 1810 there he attended medical lectures graduating in 1813 from the Medical College of the University of Maryland In 1817 despairing of ever becoming connected with the University of Maryland because of professional jealousies he joined with other physicians in Baltimore in founding the Washington Medical College under the charter of Washington College of Washington Pennsylvania In 1829 he began the publication of a quarterly medical point entuled The Marsland Medi al Recorder though ably conducted this journal suspended publication with the issue of Vovember 1832 because of lack of pnancial support. In 1930

recurrence developed. Two of the nationts died from local extension and sensis and one from - atachacan

In the light of these results the appropriate treatment would seem to be wide local excision that is resection of the ian. In the cases of momen and young persons conservative operation may be done if the patient will agree to submit to frequent examinations and to radical operation if a recurrence develops. A radical operation should be performed if the tumor is large or if the euboidal type of cell predominates as this is probably the more malig nant form of growth

After resection of the raw a prosthesis may be used or bone grafting may be done

TAUES R BROWN M D

EYE

Barkan O and Barkan H Fracture of the Optic Canal Im J Ophih 1928 xt 767

For years it has been known that following a blow on the frontal region vision may be lost. The effect on vision is due to fracture of the ontic capal with harmorrhage into the sheath of the perve or faceration of the nerve or to fracture of the anterior clinoid process. General or local symptoms may be slight but perimetric fields show partial constriction in a fair percentage of cases

The authors have seen twenty two cases in six 16473 and in this article report five with visual field tharts They believe that a sector defect extending to and including the macular region is sufficiently characteristic to be pathognomonic. They suggest early operation to remove pressure on the nerve VOIGH MESCATE M D

Jimes R R A Case of Brawny Tenonitis Best J Ophih 1928 xil 524

In the case reported the right eye had presented a peculiar salmon tint and a semi-solid appearing themosis of the conjunctiva for about four years and tecently the left eye had begun to be similarly affected the changes being noted fir t at the equator of the eyeball. On pressure the area of chemosis was slightly pitted. The Wa sermann reaction was negative

This condition was described by Stephenson in 1013 as brawny scientis but in the opinion of Collins and the author it is a tenonities Danie L. McCas, M.D.

Itine M L and Wyatt R B H A Case of Neuro abromatosis of the Right Orbit Best J Ophth 1928 XH 511

Neurofibromatosis affecting the eyelids is a rare con lition and very seldom affects the orbit. In the case reported by the authors that of a man twents six years of age the right upper hd was enormously thickened and the right lower his was sodden and ulcerated The skin and underlying tissue in the nght temporal and the right occipital region was

similarly thickened. The eye was blind the cornea being opaque and showed considerable surface vas cularization otherwise it was apparently normal The left eve and hds were normal

As the conjunctival discharge and ulceration of the lower lid could not be controlled and the right are was blind enucleation was performed with removal of a large part of the upper hd and the hd margins were sutured together Reenvery was nne ven tful

Microscopic examination of the tissues showed that practically all parts of the eveball and orbital contents were involved in the neurophromatosis

Testre I McCov M D

Corbett J J Plastic Drervorhinostomy 1m J Ochth 1028 X1 274

For successful results any operation on the tear see must relieve and prevent the recurrence of both refection and emphase. Simple extraortion of the sac will remove infection but will not relieve ent nhor2

There are now three methods of operating to relieve both inflammation and epiphora (x) the West operation an intranasal approach (a) the Tota and Mosher Tota procedures a combined intra nasal and extranasal operation and (2) the Dupuy Dutemos and Bourquet procedures an extranasal

operation The author advocates the Dunuy Dutemps and Bourquet operation and describes it in detail

LINGIL WESCOTT M D

Vall D T Jr Argyrosis of the Tarsai Conjune tiva in an infant im J Ophili 1928 m 782

Vail reports a case of membranous conjunctivities in a box fourteen months old which was caused by the injudicious use of strong solutions of silver nitrate. When the child was a month old a mucoourulent secretion occurred in the right eve with the formation of a membrane on the tarsal comments a Six months later the left eye became similarly in volved Silver mitrate solutions varying in strength from 2 to 5 per cent were used for months. An ulcer formed on the left eye which following Saemisch sec tion became phthisical As diphtheria bucilli were found diphtheria antitoxin was given occasions all granulation tissue and fibrous exudate was removed down to normal to sue. One radium treatment was given and resulted in a burn on the

Following an examination of tissue removed by the author Verhoeff reported that the brownish pigment granules were precipitated silver

THESE MESCOTT MID

Sewall E C Further Development of the Trans aphenold Approach to the Uptic Foramen 4nn Utel Rhs of & Larrage! 1918 xxxxx 839

While optic neuritis may be secondary to any of several foct of infection the author here refers to it principally as developing from sinus infection

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Todd II C Aseptic Cavernous Sinus Thrombosis J Ohlahoma State M 1ss 1928 xxx 236

Todd reports the case of a colored boy who was admitted to the hospital with pain and very rapid swelling of the left eye and orbit After numerous examinations by ophthalmologists thinglogists and other specialists the condition was attributed to a lon grade infection of the left sphenoidal sinus causing an aseptic thrombosis of the cavernous inus-This diagnosis was based upon (1) the history of rapidly developing exophthalmos more marked on the left than the right aide which was only slightly painful but was associated with redness engorge ment and chemosis of the conjunctiva (2) increased intracranial tension as shown by a slow full pulse (\$2 to 56) and marked engorgement of the veins in both fundi indicating an obstruction to the venous circulation in both eyes and (3) total absence of fever and other aigns of sepsis the red and white blood count remaining practically normal

As a rule this condition tends to become cured spontaneously but in the case reported a subtemporal decompression was done to decrease the danger of blindness from intracranial pressure on the optic

The operation was followed by complete recovers

with no impairment of vision

In the author's opinion a thrombus in the caver nous sinus is formed as the result of extension by contiguity of tissue and in the early stages at least Torry H GULLOCK M D is aseptic

Irs R H and Curtis L Some Orthopedic Prob lems of the Lower Jaw with Special Reference to Unitateral Shortening J Bone & Jet & Surg

Unilateral shortening of the mandible causing a deformity very similar to that found in ankylosis but without limitation of the movement of the jaw usually occurs in childhood as the result of osteo myelitis and necrosis and less frequently as the result of fracture or the operative removal of a section of the mandible for turnor

Function and appearance in such cases can be greatly improved by osteotomy or division of scar tissue to bring the chin forward and to the midline followed by restoration of continuity by bone graft ing The two most suitable forms of bone graft for the mandible are a perso t al graft from the tibia and a thick graft from the crest of the thum,

RICHARD I HERNDON M D

Simmons C C Adamantinoma 1nn Surr 10 h Jargemi Bos

Adamantmomata are not uncommon but are often confused with bone cysts henge giant cell

tumors or carcinomata They arise most often in the lower iaw from the paradental epithelial debris or the enamel organ. Similar tumors may occur in the hypophy cal region As the epithelial cells differentiate to a greater or less degree the tumors vary in their appearance

Grossly the tumors appear as multiple cists centrally placed in the raw. The east espands the

law destroying the cortex

Although the growths are usually considered benign they are of epithelial origin and potentially malignant Two of twelve cases reviewed hored definite glandular metastases late in the disea e-in one of them fourteen years after the onset Barp found only two other cases of glandular metastases in the hterature

The tumors are of slow growth One pat ent did from local extension and sepsis after two years while in the case of another a specimen showing the same microscopic picture was removed twenty

three years after the first operation

The usual bistory in the cases reviewed was of a slowly growing jaw tumor that had had p evious treatment of various kinds apparently without being correctly diagnosed. In the nine spec o of studied a careful search revealed stellate cells in all although the relative proportions of the types of cells varied within wide limits in the different SOFCIMENS

Four of the patients were males The age of onset was between the thirteenth and seventy third years. The upper jaw was affected in three cases and the

lower law in pine

I ray examination shows a characteristic picture of central destruction with a single or rumerous cysts The bone may be entirely absorbed The disease may be confused with benign giant crit tumor odontoma dentigerous cyst or osteomy elitis.

The condition causes no characteristic subjective symptoms There is a central tumor and if the bonr bas been destroyed a fluctuating cystic area will remain Though the diagnosis is usually ba ed on the history of a long standing tumor the possibility of adamantanoma should be considered whenever there is X ray evidence of a central cyst

Contrary to the prevailing idea the results of treatment as regards permanent cures by conserva tive operation are di couraging. In all of ten cases in which conservative operation was performed a Sharpe W S The Influenzal Ear Proc Roy Soc

Duning the course of influenza the author his stoict several types of ear involvement. The first not anacterized by the gradual onset of true nerve desires which is of directly town onging and in the contract of the contra

Sharpe concludes that if involvement of the ears by influenza is seen early and treated energetically urgers of the mistoid will eldom be necessary and complete recovery will usually result without completions. Water Marzon R. Water M.D.

Williams T J Tinnitus Aurium Some Considerations of its Causes with Special Reference to inalogies and Otol Rhin & Lange 1 1023

XXX/11 035

Finnitus aurium is perhaps the most frequent compilant for which treatment by an aurist is sought. It is not a disease in itself nor a definite symptom of aural disease and its cause is still unknown.

His ang sounds usually indicrite a laby mith at the post of nerve termination Citcking is attributed by the state of the salpingophars in great members of the salpingophars in the state of the salpingophars in the state of the salpingophars in the state of the salpingophars in the

CFIRER MCLILLER MD

Stoker F The Nature of Progressive Deafness A Degenerative Disease J La angol & Olol 10 8 also 04

The author states that progressive deafnes as generally of my loss symptomies and apparently cauciess onest and when once initiated runs a presistent and usually uncontrollable cour e toward a trainmation which varies from a triding loss of heringio total cleance s He die ous esthe pathological changes and the relation of degeneration to the on hitton. Jurier C Basaviru, M.D.

Mayer O The Pathology of Otosclerosis Iro

In the author's opinion ofosclero is hould be rekatoled as a hyperplica. The newly formed bons it we is an imperfect it said editartily lementary in the which is never found in the labyrinth cap ule in other conditions and hows marked his telogical variations. The variety is are a feature of hyperplica and tumors.

The otosclerotic areas in the liby rinth cap ule are really potbological growths which arise in connection with embryonic maldevelopments. These areas usually appear in definite positions of the laby rinth capsule. The pre-evisting bone becomes absorbed and new bone is formed.

Disturbances of development of the inner ear and other parts of the auditors organ occur in otosclero sis. There is a defaute hereditary factor in this discovered properties storaged are frequently seen.

ease Degenerative stigmata are frequently seen. The atrophy of the laby rinth almost always found in ota clerosis is due chiefly to the lack of development of the middle ear in such cases. This is demonstrated by certain malformations and by the tendency of the competitive fission, the composition of the competitive fission to become ossified.

In otosclerosis the whole miditory organ has a morbid tendence and the labs with capsule is fre

quently affected.

The author has been impressed by the fact that in some instances of Paget's disease there are localized lesions similar to those found in otosclerosia. However in ostenits deformants the process is diffuse and the nextle formed home is better developed.

Otosclerosis may be placed in a grouping based on anomalies of the connective tissue. These an omalies are expressed by such conditions as blue selerotics osteopsathyrosis ostetits deformins and hyporlasia of vessels. WM PATON MD

Nates A. L. A. Working Hypothesis for Research in Otosclerosis Proc. Roy Soc. Med. Lond. 1928 xtt. 190

Audiographs indicate three types of dealness (t) nerve or external car dealness (2) dealness due to otitis media with adhesions and (3) dealness due to acute or subacute otitis media and offoctor is

In otosclerous progressively increasing departure of the graph from the normal can be demonstrated Clinical otosclero is is defined by the nuthor as a condition is which Bezol is trind syndrome is present with patients of the custachian tube and absence of demonstrable adhesive processes in the middle car and of prefrontion of the merabrane

Actes suggests that clinical of octeriors may be at times the terminal stage of subrentio othics media in which the products of inflammation are conveyed away by the evistachian tube. He states that if a perforation forms in the membrane the ca e is not of oto elevous although the impariment of one of oto elevous although the impariment of inflammation, process of the no. Obe that a chromic inflammation, process of the no. Obe that a chromic inflammation, process of the no. Obe that a chromic inflammation, process of the no. One of the continuous control of the continuous control of the continuous control of the control of the continuous control of the contr

I Inell F A and Burnham It II The Production of Otitis Media and Labyrinthitis in Rabbits Inn O of Khinel & Labyrinthitis in Rabbits 180 O of Khinel & Labyrinthitis in Rabbits

These experiments were undertaken with the olject of making a detailed study of the changes in the middle ear aiter experimental infection of the middle ear casts.

of nerve compression in the canal An esthesia is induced by means of scopolamine and morphine sulphate the injection of 1 per cent novocam and the intranasal application of cocaine crystals The incision is similar to that used by Senall in the ethmoid sphenoid frontal operation but is modified to make a skin mucous membrane osteoplistic flap. The flap is to keep the frontal sinus from opening when the soft tissue retracts The ethmoid mass is exposed and the arteries are tied. After the ethmoids have been opened the lamina papyracea is removed the sphenoid is opened and the wall between the sphenoid and the denth of the orbit is removed. The thin bone between the sphenoid and the optic rerve is removed carefully with Jansen Middleton forcers If it is necessary to open the whole canal the dura must

He describes an operative procedure for the relief

After removal of the upper and moner canal walls there is no longer any danger of pinching the nerve Becau e of the previous lightion of the ethmoid arteries no bleeding is encountered operation is finished the osteoplastic flan is turned back into piece and the edges of the wound are fastened with metal skin clios

he lald bare

CEORCE R MCALLET MD

EAR

The Diagnosis of Intracranial Lesions of General Interest to the Profession Referable to Diseases of the Ear Instral a 1928 II 520

Purulent laby rinthitis of the diffuse manifest type may occur whenever there is a fistula from the in fected middle ear into the labyrinth Severe vestibu lar symptoms are produced including headache violent vertigo with vomiting and spontaneous nystagmus to the opposite side On destruction of the labyrinth the functional tests will reveal absolute deafness absence of response to the caloric and the rotation tests and a negative fistula

symptom Infection spreading into the mid-fle fossa pro-luces a subdural abscess In the superficial type head ache may be the only symptom Headache pen orbital pain and sixth nerve paralysis indicate a deep subdural abscess Superficial and deep ab cesses also occur in the posterior fossa Meningitis con fined to the middle fossa may give rise to headache In basal meningiti headache is usually localized but may be general Lumbar puncture is a valuable diagnostic procedure and not dangerous The fluid is under increased pressure and is clouds or In tuberculous meningsts the fluid s nurulent clear and opalescent

Temporal lobe abscess may pass through two stages (1) a manifest stage in which signs and symptoms are present and (2) a latent stage which may last for several months with no symptoms he and headache In the manifest stage there is

drowsiness with headache localized to the temporoparsetal lobe Sometimes tenderness is found in this area on percussion Ny stagmus is rare except when the abscess ruptures into the ventricle Chol d disk is seldom seen A fairly constant sign is partial bemianopsia on the same side as the lesion. Approxiand paraphasia are common

Smus thrombosis follows a persinal absert 5. The symptoms of sinus thrombosi are cuphona a siptic type of temperature with rigors hamatogeness seterus of the conjunctiva petechia of the skin and choked disk Choked disk appears late in th

disease In cerebellar abscess nystagmus is an importin sign. It is usually coarser than the nysta mus du to suppurative disease of the labyrinth. It may be toward either side but it more u ually toward the side of the Icsion It increa es as the pressure le comes greater Choled di k is more common in cases of cerebellar abscess than in those of temporal lobe ab ce s lomiting and headache are con tant Definite vertigo is present. The patient tend to fall toward the side opposite the one on which the lesion is located Disdiadokokinesis is fairly con stant

In acoustic nerve tumor produces dealness tia natus and vertigo with facial paresis. As the turor enlarges the fifth and sixth nerves become involved Later the ninth the tenth and eleventh nerves are affected The chords tympani is affected early with consequent loss of taste in the area supplied by R M Pero MP this nerve

Davis E D D Injuries of the Ear Arising from Fractures of the Skull B # M J 1928 IL 141

The author believes that an aural examination should be made unmediately after a skull fracture as it is then po sible to estimate the damage to the est more accurately

In the majority of basal skull fractures the middle fossa is involved and when this is the ea e the eustachian tube is apt to be injured | Tracture of the internal ear and laby rinth is rare Profuse and prolonged bleeding from the external ear indicates hamorrhage from the middle meningeal artery or rupture of the lateral sinus In cases of hemorrhage from both ears the mortality is about 66 per cent whereas in those with hiemorrhage from one cir it is about to per ceat

In cases in which uppuration was present before the accident the probability of meninger infection is very great and the prognosis is correspondingly in favorable In cases of fracture of the middle foca pempheral paralysis of the facial nerve occurs in about 46 per cent but recovery results after a long interval The degree of deafness varies considerably depending on the focal suppuration and inflamma tion but if improvement is to occur it 1 u ually apparent within eight weeks Suppuration calls for the establishment of free drainage through the drum and possibly mastoidectomy

GEORGE R MCACHER MD

Sharpe W S The Influenzal Ear Proc R 1 Soc If d Lond 1928 TE 1923

During the course of influenza the author has noted several types of ear involvement. The first is characterized by the gradual onset of true nerve dealness which is of directly toric origin and in few cases is followed by complete recovery The second is characterized by acute myringitis with intra membranous hemorrhages and is relieved by scari fication or myringotomy if bulging occurs third is characterized by inflammation within the tympanic cavity with severe symptoms but is completely rehead by myringotomy if the opera tion is performed promptly

Sharpe concludes that if involvement of the ears by influenza is seen early and treated energetically surgery of the mastoid will schlom be necessary and complete recovery will usually result without com-MANFORD R WAITZ M D

plications

Williams T J Tinnitus Aurium Some Consid erarions of Its Causes with Special Reference to Analogies Inn Ciol Rim i & Laringol 1923 X12111 002

limitus aurium is perhaps the most frequent complaint for which freatment by an aurist is sought It is not a di ease in itself nor a definite symptom of aural disease and its cause is still unknown

Hissing sounds usually indicate a laby rinth at the point of nerve termination. Clicking is attributed to the spismodic contraction of the salpingophary n geus muscle. Bubbling noises may arise from an exudate in the middle ear I ulsating or beating not es are due to erculatory disturbances cruentive factor may possibly be a general sclerosis os ification or calcification of the eighth nerve or cortex. In some cases however the condition is of psychic or neurasthenic origin

CICRCE R MCMINE MD

Stoker F The Nature of Progressive Deafness A Degenerative Disease J Lary gol & Oral 0 % xun 645

The author states that progressive deafness i generally of insidious symptomles and apparently causeless onset and when once initiate I runs a persi tent and usually uncontrollable cour e tos and a tulmination which varies from a trilling loss of hearing to total desine s He di cus es the path slog ical changes and the relation of degeneration to the een litton IAME C BESSWELL M D

Mayer O The Pathology of Otosclerosis Ir Ry Soc Wed Lond 1928 x 1 189

In the author's opinion of osciero is should be regarled as a hyperpla ca. The newly furmed bony te ue is an imperfect tis ue distinctis elementars in tipe which is never found in the labs rinth cap ule in other con liti as and hows marked hi tological variations. The variations are a feature of hyper pla ia an i tumor

The otosclerotic areas in the laby rinth capsule are really pathological growths which arise in connec tion with embryonic maldevelopments. These areas usually appear in definite positions of the labyrinth capsule. The pre existing bone becomes absorbed and new bone is formed

Disturbances of development of the inner ear and other parts of the auditory organ occur in oto clero sis. There is a definite hereilitary factor in this disease Degenerative stigmath are frequently scen

The atrophy of the laby rinth almost always found in otosclerosis is due chiefly to the lack of develop ment of the middle ear in such ca es This i demon strated by certain malformations and by the tendency of the connective tissue to become ossified

In otosclerosis the whole auditory organ has a morbid tendency and the labyrinth cansule is fre

quently affected

The author has been impressed by the fact that in some instances of I aget a disease there are localized lesions similar to those found in oto clerosis. How ever in osteitis deformans the process is diffuse and the newly formed bone is better developed

Otosclerosis may be placed in a grouping based on anomalies of the connective tissue. These an omalies are expressed by such conditions as blue sclerotics osteopsathyrosis osteitis deformans anil hypoplasia of vessels W. M. LATON M.D.

Yates A L A Working Hypothesis for Research in Otosclerosts Frac Ray too Med Lond 1928

Audiographs indicate three types of deafness (1) nerve or external car deafnes () deafness due to otitis media with adhesions and (a) deafness due to acute or subscute otitis media and otosclero is

In otosclerosis progressively increasing departure of the graph from the normal can be demonstrated Clinical otosclero is a define I by the author as a condition is which Bezold's tried syndrome is present with patency of the custachian tube and absence of demonstrable adhesive processe in the middle car and of perforation of the membrane

I ares suggests that clinical otosclerosis may be ut times the terminal stage of subacute ofitis media in which the products of inflammation are conveyed away by the custachian tube. He states that if a perforation forms in the membrane the ca e is not one of oto clerosis although the impairment of hearing may be similar. It is possible that a chronic inflammators proces of the middle ear may bring alout a pathological condition such as is found in oto clerosis. The article contains representative audiographs W M LATON M D

I inell L A and Burnham II II: The Production of Otitis Media and Labyrinthiris in Rabbirs tun O I Rh nol - La v g l 1928 xxxxx 782

These experiments were un fertaken with the ol ject of making a detuiled stuly of the changes in the mildle ear after experimental infection of the middle car cavity

The organism used was a hemolytic striptococcus obtained from climical cases of scarlet feet. Two or 3 cm of a dilute broth culture were superted at a time through the tympanic drain membrane at intervals of from two to four weeks. White the animals recovered promptly after the first superton the striptococcus of the strip

Abundant evidence of inflammatory bone disease and attempts at bone repair were found. In many instances the stapes had been attacked. Masses of granulation tissue were present. In one case the laby mith bad become involved through the oval and round windows. George R McAutre M D.

Lewy A The Influence of Fluorine on the Bony Labyrinth of the White Mouse (Muz Mins culus Albinus) Preliminary Report Arch Obdarringol 1925 viii 515

Lesy states that fluorine is z factor in bone metabolism. In the white mouse its influence seems to extend to the bony labyrinth of the car an observation which suggests to the otologist the possibility of using fluorine in the treatment of oto scleross. JAMES C. BRANKEL, M.D.

Tutner A L and Ftaser J S Labyrinthitis a Complication of Middle Ear Suppuration A Clinical and Pathological Study J Laryngol & Old 1928 zlu 609

Of thirty one cases of labyrinthitis in which the authors made microscopic studies the condition followed acute middle are suppuration on five and chronic puculent otties media in twenty six Only three cases with involvement of the inner ear could be attributed to acute middle ear suppuration

Of the twenty six patients with labyrinthitis following chronic middle ear suppuration all but three were under thirty one years of age. The cause of the original ear discharge was ascertained in seven cases. In five it was measles and in two scarlet fever

Cholectatums was noted on otoscopic examine tion at operation or on subsequent microscopic examination in twenty of the twenty sax cases. Pen anisa abscess was present in eight cases. There was only one case of serous labyrinthritis. In six cases, occurrence had by intitutive was found in the laberal canal and in one case in the cochlea. The purpleast stage was noted in intrirect nears but in five of these there was evidence of granulation or connective tissue.

JUNES CE BEN WALL, M. D.

Portmann G Vasomotor Affections of the In ternal East Pric Roy Sic H d Lond 1918 131 1917

Va omotor di turbances may be considered as among the most pathognomous and the most am portant affections of the internal ear The symptoms are vertigo caused by sudden vasodilatation following spasm such as occurs in the sydened of Lermoge or ob a pronounced suchma chief is labyright such as occurs in Memora deartimates indicating cochlear unvolvement and produced either by vasoconstriction or visoblation vestibular arritability evidenced by hypercochbility in vasoconstriction and vasobilation and deafness caused by vasoconstriction.

The angospasmodic syndrome of the labymai includes (1) tunnitus (2) deafaes and (1) syn pathetic byperiony. The syndrome of byperiosy is the same with the addition of vestibular byper excitability and sympathetic hyperiosy. Both yn dromes may alternate one may predominate over the other or at times the sympathicotone ma predominate at the level of one organ and the

parass mpathetic at the level of the other. The causes of vagosymathetic trobles at therefore of labyrinthine vascular spasms may be mechanical endocranial tome or psyche. It most unportant causes acting on the regulating apparatus are the action of the nervous swent of the action of the endocrane glands especially the suprate of the superaction.

Fenton R A and Larsell O The Mechanism of Pain Transmission in Certain Types of Otalgia Ann Otal Rk of & Laryage 1918 EXPU 239

The authors state that investigation of the new hashology of the sphenopalatine region and additional and area so complete. National infection of pressure in the phenopalatic sensor, distribution attitudes of their additional and other visceral sensory their Such implies passing through the great superficial personal pressure that their additional and other visceral sensory their Such implies passing through the great superficial personal personal to the generalise ganglion of their sensor that their additional and their sensor that their sensor tha

GEORGE R MCATLES VID

NOSE AND SINUSES

Theisen C F Ethmolditis in Infants and in Young Children with Accompanying Eye and Orbital Complications 4rck Olderynt i 1915 viu 356

The author reviews thirty one cases of ethinoidits in very young children. In six, there were eve and orbital complications, and in six others the ethinoid its was associated with maxillary mustis. The most frequent causes of ethinoidits are com-

mon colds scarlet fever measles influents and diphtheria. The condition is favored by e light torsils and adenoids tuberculous tendencies and

The best aid in the diagnosis is the \ ray
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Thesen believes that conservative treatment andicated especially in the cases of children. To improve zeration of the sinuses he uses an ephedine

spray lie employs radical operative measures only when severe eye orbital or systemic complications are present and then operates externally through a killian incision

Six cases in which operation was necessary are reported George R McAllier M D

Senall E C The Diagnosis and Treatment of Chronic Naulilary Sinus Infection Extension of the Technique to Include Control of Harmon rhage by Ligation of the Terminal Branches of the Internal Mazillary Artery and Resection of the Middle Meatal Wall Giring Operative Approach to the Ethmold and Sphenold Sinuses Arth Oldaryagio 1028 vm 40

In the diagnosis of chronic manillary ansustis the history the symptoms the findings of the physical X-ray and cytological examinations and the results of irragation must be taken into consideration. Simustis is to be suspected in cases of recurrent coils in rapid succession in which smears and the Sytological examination show an increase in the mother of leucocytes. Negative reoritizingsman in the presence of a nasal discharge cannot be regarded as conclusive evidence of the absence of simusitis.

If possible persons suffering from chronic maxil lary sinus infection should move to a region with a warm dry climate. The non operative treatment of the condition consists in the use of local measures to decrease swelling in the nose and promote drainage When surgery is indicated the author performs a radical Caldwell Luc operation with removal of the middle meatal wall To prevent bleeding the ter minal branches of the internal manilary artery are ligated where they enter the nose The infra orbital and supra orbital ethmoid cells are exenterated and the sphenoid is drained. If necessary a frontoethmosphenoidectomy is performed later. All of the surgery is done under local anæsthesia. One hour before the operation the patient is given 1/100 gr of scopolamine and 14 gr of morphine procame bydrochloride is injected along the gingivolabial margin and cocaine erystals are applied intranasally GENGER MCAULIFF M D

MOUTH

Biair V P Brown J B and Womack N A Cancer In and About the Mouth in St g 1928 laxxin 705

Cases of cancer in and about the mouth are grouped by the authors according to the anatomical site of involvement chiefly because of the relation of the latter to the treatment and prognosis and because such a grouping facilitates classification his lory taking and presentation

The term carenoma of the jaw is not used because bone involvement is secondary and only incidentally influences the treatment

Crowths with wide extension or metastases are put in the group corresponding to the primary site of the growth There are cases of tumors of the neck to

which no primary growth site can be determined but the majority of neck tumors are metastatic from some unrecognized growth in the upper respiratory or directive tract

Four arbitrary clinical stages are distinguished which are of practical use as a basis for treatment

and prognosis from clinical findings

Biopsies are done in most cases before treatment is begun both for confirmation of the diagnosis and for the determination of the relative degree of malignancy of the growth

In arriving at a plan of treatment and the prognosis clinical and microscopical findings are considered together. No one criterion has been found to offer an accurate basis of prognosis as regards life

Growths may be held in relative abeyonee for a time but later take on much more rapid growth if not a true increase in malignancy. In the eases ir viewed there was a higher percentage of undifferen

trated growths in the late than in the early stages. There has been observed a type of growth that in its clinical aspects is cancer but in which the micro scopic picture does not show the typical definition of cancer. Such growths may cause great destruction if

cancer Such growths may cause great destruction if they are not treated at least locally as cancer. The degree of malignancy of metastatic gland car cinoma follows fairly closely that of the primary

growth There may be no microscopic evidence of malignancy in the regional glands but this does not necessarily mean that the glands are not affected! Of the cases reviewed the results were of course hest in those m which no carcanoma was found in the glands llowever there were cases in the series showing that

undifferentiated carcinoma even in the glands of the neck is not an absolutely hopeless condition. The operative mortality was high—2r 5 per cent

All but one of the deaths occurred in advanced cases in which very radical operations had been done

The farther back in the mouth and pharynx the operation is carried the higher the mortality. This is probably due to increased liability to respiratory mection.

The results of treatment are tabulated

JAMES B BROWN M D

Fairchild F R Cancer of the Lower Lip Sug gestions as to Operative Technique in Plastic Repair 4rch Surg 1928 xvii 630

In the operation for cancer of the lower lip which is advocated by the author vertical incusions are made at each side of the tumor through the entire made at each side of the tumor through the entire lower ends by a transverse musion. The cancer then being sons are then pellogged downward in an obliquely vertical direction to mobilize a flap of tissue to be used in the formation of the body of a new lip. In the free dissection of this submental flap any modered glands are enused in the next step buscal modern the standard ends of the submental flap and the submental flap and submediate the submediate for the six flap and sutured with interrupted statung for the six flap and sutured with interrupted statung of chromic exity. The original skin flap and mugous

The organism used was a hæmolytic streptococcus obtained from clinical cases of scarlet fever Two or 3 ccm of a dilute broth culture were injected at a time through the tympanic drum membrane at intervals of from two to four weeks. While the animals recovered promptly after the first injection it was noted that recovery became progressively more delayed A few weeks after the last injection the animals were killed and the temporal bone was fixed in formalin decalcified sectioned and stained with hamatoxylin and cosin

Abundant evidence of inflammatory bone disease and attempts at hone repair were found. In many instances the stapes had been attacked Atasses of granulation tissue were present. In one case the labyrinth had become involved through the oval and round windows GEORGE R MCACHIFF M D

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Vasomotor Affections of the In Portmann G Proc Roy Soc Med Lond 19 8 ternal Ear XX1 1017

Va. omotor di turbances may be considered as among the most pathognomonic and the most imtoms are vertigo caused by sudden vasodilatation

following spasm such as occurs in the syndrome of Lermoyez or by a pronounced ischamia of th labyrinth such as occurs in Meniere a disease timmitus indicating cochlear involvement and produced either by vasoconstriction or vasodilatation vestibular irritability evidenced by hyperexista bility in vasoconstriction and vasodilatation and deafness caused by vasoconstriction

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parasympathetic at the level of the other The causes of vagosympathetic troubles and therefore of labyrinthine vascular spasms may be mechanical endocranial toxic or psychic The most important causes acting on the regulating apparatus are the action of the nervous system and the action of the endocrine glands especially the MANFORD R WALTZ MD auprarenal

Fenton R A and Larsell O The Mechanism of Pain Transmission in Certain Types of Otalgla

Ann Olol Akinol & Laryngol 1918 xxxvii 730 The authors state that investigation of the neurohi tology of the sphenopalatine region is difficult because of the lack of fresh material and the in adequacy of degeneration studies of fibers and cells in an area so complex \asomotor chan es infil tration infection or pressure in the sphenopala sensory distribution stimulates the palatine seventh and other visceral sensory fibers Such impulse passing through the great superficial petrosal nerve to the geniculate ganglion come into relation to the somatic sensory cells and fibers of the ramus cuta neus facialis transferring the poin impulse to the auncular and mastoid region

GEORGE R Mc lours M.D.

NOSE AND SINUSES

Ethmolditis in Infants and in Theisen C F Young Children with Accompanying Eye and Orbital Complications Arch Oploryngei 19 8

The author reviews thirty one cases of ethnochti in very young children In six there vere e) e and orbital complications and in six others the ethmoid this was associated with maxillary sinusitis.

The most frequent causes of ethmoiditis are com mon colds scarlet fever measles ir menta and diphtheria The condition is favored by enlar ed tonsals and adenoids tuberculous tendencies and congenital syphilis

The best aid in the diagnosis is the \ ray Theisen believes that conservative treatment is indicated especially in the cases of children. To improve aeration of the sinuses he uses an ephedrale aureus. The patient later developed many meta static infections and died at the end of three months vulops) showed that the suppuration bad occurred in an adenoma and by burrowing had lifted the cap alse from the right and left lobes. The gland was filled with adenomata which showed signs of recent infammation.

Burhans points out that the rich blood supply and the production of thyroit hormone tend to prevent indection of the thyroid while the physiological changes of puberty menstruation and pregnancy acute infections and the formation of adenomita tend to lower the resistance of the glant.

Thyroiditis may be of the acute or chronic type.
The acute type may resolve or go on to suppuration

and gaugtene

The condition occurs more frequently in females It may result from direct traumr or in fection of the gland by way of a persi tent thir or glosal duct direct invasion from continguous structures or metastassis by any of the bymphatics or blood stream. Victustasis by way of the blood stream is the most common mode of infection.

The chief symptoms are pain over the thyroid swelling of the thyroid or of an adenoma tenderness of the thyroid chills and fever coughing hourseness and aphonia dyspinoza dysphagia and thyro toxicosis In case of abscess there will be fluctuation

in the tumor mass and redress of the overlving skin. Throaditis must be differentiated from hyper trophy of the adolescent thyroid iremorphage into the gland matignancy glossitis abscess formation at the base of the tongue bronchal and thir or glo sil cysts perichondritis of the laryngeal car tidages and cellulatis and philegmon of the neck

The prognosis is generally favorable if the condi

tion is recognized early and treated properly.

The treatment should usually be con ervative in cases of the non suppurative variety and surgical in cases with suppuration. PAIL W. GREELE M.D.

Hanzlik P J Talbor E 1 and Gibson E E
Continued Administration of Iodide and Other
Salts Comparative Effects on the Weight and
Growth of the Body 1 th 1st W d 1928 du

The authors studied the effects of the administration of todides and other salts on the weight and growth of rats during from one seventh to seven inellihs of the hie span of these animals. They draw the following conclusions

1 The continued administration of iodide in small daily does in food over long periods (covering from about one sevent to seven twelfths of the span of life) to rais caused moderate though varitible increases in weight and growth of the book in

the majority of the animals on a complete dietary. The same tendency was indicated in rats on a deficiency diet

2 The dosage of iodide employed corresponded to that which may be employed under chinical conditions but was probably greater than that used as iodized table salt.

3 In contrast to the results obtained with iodide were those obtained with sulphocyanate hromde arsenic thallium and manganese used as controls under the same conditions. These salts reduced the body weight and growth and arsenic and thallium caused fatalities.

4 The results obtained with the iodide corrobo rate and correlate with interesting and important results obtained with small doses of iodide reported

in the literature of veterinary medicine

5 Hence there is no reason to believe from these experiments that the prolonged use of todde in small doses under ordinary conditions is detrimental. On the contrary the results along various hindicate that it is beneficial. This would not apply to the continued use of todied in specific condition of the thy rold or to large doses of the drug.

JACOB M MORA M D

Adamson G L and Cameron A T The Pre
Operative Treatment of Graves Diaease by a
Combination of folized Fatty Aeld and Vi
tamins A and D Canadian V Ass J 19 8
NX 40

Harvey noted that in goats fed with cod liver oil which contained a slight amount of iodine more joine passed into the ruil, than when a corresponding amount of iodides was fed. This observation suggested that some of the constituents of cod liver oil have an influence on iodine metabolism.

Rahinovitsch suggested the use of a preparation of iodized jecoleic acid incorporating the vitamin concentrate of cod liver oil. This preparation is

called vitio lum

In a series of eleven cases of Craves disease the authors made investigations to determine whether the solme fraction the vitamin fraction or the combination of the two is necessary for the favor able results obtained by Mason and Rabinowitsch using vittodium instead of Lugois solution. In two cases they found that neither the vitamin not the cases they found that neither the vitamin not the cases they found that neither the vitamin not the cases they found that neither the vitamin not the class of the case of the case of the vitamin of vita

The glands removed after the administration of vitiodum were histologically similar to those removed after treatment with Lugol's solution

I S MODERY M D

flaps are then sutured and brought into place as a new lip

The advantages of this operation may be sum marized as follows

I There are no contractures to decrease the size
of the mouth
2 There is no interference with the most radical

extirpation of the tumor along with glandular enlargements

3 The operation may be completed in one stage 4 There is no tightening of the lip

5 \ sulcus of normal depth is formed in front of he incisors CEONGE & VOLUME VID

PRARYNX

Hueper W C and O Connor D Agranulocytic
Angina Lary 150500 pt 1028 xxxxxx 020

The authors report five cases of agranulocytic angina. All terminated fatally. No evidence of contagiousness of the disease was proved.

The unknown toruc element in the condition in jurce not only the granulocy its system but also the imphatic system as evidenced by the marked absolute deer ase in the lymphorytes in the blood and atrophy of the lymphatic tissue in the spleen and lymph nodes. Maxyono R Wattz MD

Mollison W M Dysphagia Due to I haryngeal Paralysis Proc Roy Soc Hed Lond 1)28 VX: 1777

Dyshagia due to paralysis of the pharangeal wall is uncommon. The different types are (i) the central or nuclear from bulbar paralysis localized hymorrhagis or embolus (2) the intracassal or infranuclear from pach menangias and tumors and (3) the extracassal or has of the skull from tumors glandular involvements diphthenia and lead no onsite.

I aralysa of the pharynt from central leuons as described in the tethbook is unusual As a rule at is progressive and fatal but the author reports such with recovery in five I most of these the condition occurred following a marked straining of for such as that of examile from such as that of examile form such as that of examile forms of the such as the

The author reports also a case of pharyageal paralysis due to peripheral nerve paralysis two cases due to polio-encephalitis and two cases due to a

lesion at the base of the skull

NECK

Vinkelbauer A Experiments with Regard to the I hysiology of the Thyroid (Typenment fles zur Physiologie der Schilddruese) Be i z kl. z Cl. 1938 c.ht. 707

Basing he work on Breitner's studies on the histological picture and the functional activity of the thyroid Winkelbauer mide a series of eigen meets on animals to determine what happens are gards the todine content of the throid when the gland has been reduced in size by one half as in creased demand are made on the remaining to see demands which according to the results of Britter

experiments are manifested by increa ed secretion. In six dogs one half of the thiroid was estimate, and its sodine content determined. The quantitative determinations were made according to Fellenberg, method. From ten to fourteen days later the te manning half of the thiroid was removed and it.

todine content determined

It is to be assumed that rodine plays an importan rôle in the production of a fully normal secretion This is evident from the particularly high iodin content of the thyroid. Therefore if the thyroi represents in a lashion the central depot for iodin in the organism then under normal conditions certain quantity of gland tissue corresponds to certain quantity of sodine-of course in one and the same individual When the gland is decreased to size by one-half the remaining half which is doing more work than before without doubt require mo sodine and since the two halves may be assumed t be of approximately the same size it is to be er pected that the organism will place trice th quantity of sodine at the disposal of the remaining portion of the organ Accordingly we would expen to find about twice the quantity of iodine in th tempoing lobe of the thyroid

It was discovered however that while the today content of the remaining lobe was increa ed t some cases consilerably the increase acre amounted even approximately to double the fire quantity perhaps because of an increase in the dis charge of gland secretion from the remaining the mi tissue In a dog with a pronounced colloid strum a very marked difference was found in the today content of the two balves Here the increased of cretion was clearly evident According to Winks bruer this is brought about only through the las that the pathologically changed gland does no pes ess the capacity of normal gland t sace to pic up rapidly the iodine offered it by the organism an thus repair the debut It appears that the patholog cal changes of the colfoid struma include not or an enlargement and increase in volume of the glanand the retention of colloid but also a di turbanc of the capacity of the gland to take up rodine LOEGE (Z)

Burhams E. C. Acute Thyroiditis a Study of Sixty Seven Gases S. f. Gynec & Obst. 19

Acute thyroidits 1 more common than 18 generally believed. The author has found more that 200 cases recorded as the literature. He reports case 18 which a diagnosis of acute thyroidits we suppurstone and diabetes was made and the smalling in the neck was oppered under local anaesthesis of dramed. Caltures of the pus showed staphilococcur.

meningomyclocele strongly favor this concention Case a differed only in that the hydrocenhalus was less marked and slower in development The expla nation is that some of the channels opened and allowed a partial distribution of fluid

In Case 4 there was an acquired form of hydro cephalus due to adhesions formed by a menin gococcus meningitis Although this case was histo logically different from the first three cases the

effect was the same

In Case 5 there was a history of trauma without evidence of infectious meningitis. The presence of degenerating blood elements and the patchy distribution indicated a sterile reactive leptomenin gitis a posttraumatic posthæmorrhagic organizing process in the pia arachnoid. As many areas remained patent the hydrocephalus was mild

These cases are interpreted as supporting Dandy s observations on communicating hydrocephalus Dandy claims that the suharachnoid space with its mesothelial lining is an absorbing surface while according to Weed the fluid filters through the that a patent subgracknoid space is essential for the normal distribution of eerebrospinal fluid and that a reduction in the absorption of eerebrospinal fluid causes hydrocephalus

To distinguish hetween the obstructive and communicating forms of hydrocephalus a neutral so lution of phenolsulphonephthalein is injected into the ventricles. In the obstructive type, the die is not recovered in fluid obtained by spinal puncture and there is almost no excretion of the dye by the kidneys in two hours. In the communicating type the dye is found in the spinal fluid immediately and from 2 to 5 per cent is excreted by the kidneys in two bours E S PLATT M D

\tichon P The Spinal Dagger Thrust Initial Symptom of Certain Subarachnoid Hæmorrhages An Essay on Spinal Meningeal Hæmorrhages (Le coup de poignard rachidien symptome initial de certaines hemorragies sous arachnoid ennes Essat sur les hémorragies ménin gees spinales) Presse med Par 19 8 xxvvi 964

In addition to the traumatic or spontaneous cere bromeningeal hamorrhages which are usually fatal hamorrhages of another type have now become well known as the result of studies of the cerebrospinal fluid The latter are spontaneous subarachnoid bemorrhages seldom fatal which occur most fre quently in young persons

The initial symptoms are constant and very striking In apparently good bealth the patient is taken suddenly with pain between the scapulæ which quickly becomes very severe and to a certain extent tends to radiate to the base of the skull The patient may believe he has been stabbed in the back Rigidity of the cervical region quickly follows ₩ith slight opisthotonus

The clinical picture is that of acute meningitisthe musket hammer attitude positive Lasegue

Brudzinski and Kernig signs evaggeration of the tendon reflexes with symmetrical symptoms of pyramidal irritation painful rigidity of the legs producing sometimes a pseudoparaple, ia and fre mently incontinence of urine and faces

The cerebral symptoms are in the background inconstant and dissociated. The semi comatose state is largely the result of the intense suffering Occasional symptoms are nausea vomiting, photo phobia sensitiveness of the eyes to pressure altera tion of the light reflex prolonged screaming (hydro cephalus type) ie, the symptoms of increased pressure of the cerebrospinal fluid Toward the symptoms are entirely wanting second day fever results from the absorption of

Puncture shows the spinal fluid to he bloody and under tension but in no respect different from the fluid obtained in other types of meningeal hamor

rhage

This syndrome is considered an entity because it cannot be made to fit into any of the standard classifications There are no signs of cerebral hamorrhage or hamatomyelia. It has long been known that hamorrhage alone can cause spastic paraplegia and when it involves the cauda can disturb the sphineters The hamorrhage in these cases is burely meningeal and spinal distinctive feature is the absence of an apparent cause The hæmorrhage is not simply a complication of a tumor aneurism or tuberculous or syphilitie infection

Only seven eases certainly belonging in this category have been reported. In three there were purely spinal symptoms and at autopsy extensive subarachnoid hamorrhages were found. No spinal punctures were performed. In the four others the symptoms allowed the same diagnosis and spinal puncture relieved them by releasing a bloody fluid In one case the diagnosis was confirmed after death from bronebopneumonia

On the hasis of these few cases the following classification is suggested (1) an extensive form resembling Landry's paralysis (2) a cervical form which is apt to cause death by producing pressure on the vital centers (3) a dorsal form typified by the author's two cases and (4) a lumbar form in which scratic pain and disturbance of the sphincters predominate

The differential diagnosis from acute meningitis

is aided by the absence of evidence of infection and by the character of the spinal fluid

The etiology is obscure but it appears probable that a great variety of diseases which predispose to hamorrhage may provoke meningeal ham orrbage

The treatment consists in spinal puncture re peated as necessary to relieve the pressure prognosis is generally favorable although a subpial hemorrhage is capable of producing permanent dis turbance in the spinal centers

ALBERT I' DE GROAT MID

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Bland Sutton Sir J Hydrocephalus A Study In Phylogeny and Pathology Lancet 1925 cczv 687

On each side of the cerebellum ammediately adfacent to the flocculus is a fuft of choroid plerus continuous with the choroid plexus covering the roof of the ventricle These tuits extend into each lateral recess where the foraming of Luschka are found The orifice of the lateral recess is in contact with a depression on the inner wall of the petrous portion of the temporal hone which lodges the hulhous end of the endolymphatic duct. The third primary vesicle develops into the fourth ventucle and with sprout from the velum. It is not known just when the lateral angles of the fourth ventricle hurst into the subgrachnoid space but this probably occurs when the chorionic villa become active and the pressure of fluid makes vents through the least resistant parts of the wall. This activity occurs about the fourth month of intra uterine life and if the escape of fluid is hindered the caveties of the brain become dilated an effect parallel with that produced on a kidney by blockage of the ureter The choroid plexus performs a function for the brain similar to that which the renal enithelium performs for the body in general and complete oh struction of the intraventricular communications i as inimical to life as complete obstruction of both ureters

The embryology of the brain indicates clearly that the primary vesicles form a closed sac and that communication with the subgrachnoid space is secondary Failure of such communication hones on fetal hydrocephalus similar therefore to fetal hydronephrosis A study of the skull in the car tilaginous state shows on the inner face of the periotic cartilage an orifice posterior to the internal auditory meatus the aqueductus vestibuli which contains the endolymphatic duct and ends as a bulb under the dura. In contact with this bulb hes the lateral recess of the fourth ventricle Such proximity indicates a close relationship between the endolymph and the ventricular fluid. In certain cartilagmous fishes the endolymph is separated from the water only by kin and the auditory capsule lodging the bulh of the ductus endolymphaticus is in close re lationship to the onfice of the lateral recess In a study of embryo dogfish Alexander found that at the spot where the lateral recess comes into contact with the skull capsule the cartilage which elsewhere is thick is reduced to a thin membrane which alone separates the endolymphatic cavity and the fourth ventricle

When the lateral process becomes occluded in the human fetus the cerebellum fails to develop sof the fourth ventracle becomes a sax beligning though the median gap and producing an occupital memopcie. Many examples of congenital hydrocephils are due to prenatal hilateral occlusion of the lateral excesses of the fourth ventracle.

Otologists may attempt to relieve such anditions by puncturing the endolymphatic sac. Surgens may relieve by drocephalus not by tapping the lateral ventricles through the vault of the skull, but by norsing the lateral recesses at the base

Gitnear C Axpenson 3(D)

Globus J II Communicating liydrocephalus

So Called Idiopathic Hydrocephalus & J

D s Child 1018 XXXV1 680

With recognition of the causes of the various forms of hydrocephalus in being abundoned. One form of venticular hypertrophy with status of the orthogonal fluid is due to an obstruction to the normal outliew from the venticular such as summer of the control of the control by t

The communicating type of hydrocephalus is dependently to the property of the

hrain

The author reports five cases diagnosed chincally
as internal by drocephalus in which at autopsy be
impeted India ink into the subarachood space by
cysternal puncture.

In two of the cases there was almost complete otherstano of the subaractomic channels patter usarly at their origin from the custerns. Inflamma tony exudative or productive changes are about and the pia arachaoid membrane retained embryon features indicating that a developmental don't space temporable for the failure of the subaraction of of the suba

meningomyelocele strongly favor this conception Case 3 differed only in that the hydrocephalus was less marked and slower in development. The explanation is that some of the channels opened and allowed a partial distribution of fluid.

In Case 4 there was an acquired form of hydro cephalus due to adhesions formed by a menin gococcus meningitis. Although this case was histologically different from the first three cases the

effect was the same
In Case 5 there was a history of trauma without
evidence of infectious meningitis. The presence of
degenerating blood elements and the patchy dis
tribution indicated a sterile reactive leptomenin
gitis a posttraumatic posthamorrhagic organizing

process in the pia arachnoid. As many areas remained patent, the hydrocephalus was mild

These cases are interpreted as supportung Dandy's observations on communicating hydrocephalus Dandy claims that the subaractinoid space with its menothelal liming is an absorbing surface while according to Weed the find filters through the pactionian bolder. Both Dandy and Weed agree packboxing bodies. Both Dandy and Weed agree packboxing the part of the part of the packboxing the packbo

cause h drocephalus

To distinguish between the obstructive and com
manicating forms of hydrocephalus a neutral so
ultimo of phenoisulphonephalus in singleted into
the ventrales. In the obstructive type the dye is not
the ventrales. In the obstructive type the dye is not
there is thing to excretion of the dye by the ludneys
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the ludneys in the dye
there is the standard of the ludneys in two hours

per cent is excreted by the kindneys in two hours.

E. S. FLAT M. D.

Michon P The Spinal Dagger Thrust the Initial Symptom of Certain Subarachning Internatings An Essay on Spinal Meningeal Harmorrhages (Le coup de popgand rachniden symptome initial de certaines hémorragies sous airchoudennes Essas sur les hémorragies ménan gées spinales) Fress med Far 1928 XXVI 964

In addition to the traumatic or spontaneous ceretomenengeal harmorrhage which are usually fatal bemorrhages of another type have now become sell shown as the result of studies of the cerebrospinal faul. The latter are spontaneous subarachnoul bemorrhages seldiom fatal which occur most frequently in young persons. The initial symptoms are constant and very

strking. In apparently good health the patient is taken suddenly with pain between the scapular which quickly becomes very sever and to a certain extent tends to radiate to the base of the skull. The patient may believe he has been stabbed in the health way believe he has been stabbed in the skull because the patient way believe he has been stabbed in the health way believe he has been stabbed in the stable patients.

The chinical picture is that of acute meningitisthe musket hammer attitude positive Lasegue

Brudzinski and Kernig signs exaggeration of the tendon reflexes with symmetrical symptoms of pyramidal irritation painful rigidity of the legs producing sometimes a pseudoparaplegia and frequently incontinence of urine and faces

The cerebral symptoms are in the background monstant and dissociated The semi comatose state is largely the result of the intense suffering Occasional symptoms are nausea vomiting photophobas sensitiveness of the eyes to pressure alteration of the light reflex prolonged screaming (hydrocephalus type) 1e the symptoms of increased pressure of the cerebrospinal fluid Localized 33 mptoms are entirely wanting Toward the second day lever results from the absorption of

I uncture shows the spinal fluid to be bloody and under tension but in no respect different from the fluid obtained in other types of meningeal hæmor

This syndrome is considered an entity because it cannot be made to fit into any of the standard classifications. There are no some of cerebrah homorrhage or itematomy clie. It has long her homorrhage of itematomy clie. It has long her homorrhage in the known that homorrhage alone can cause spassing purplets and when it in obles the cause act and when the sphinters. The homorrhage in these cases in purely mentingeal and spinal. Another distinctive feature is the absence of an apparent cause. The homorrhages in our simply a complication of a tumor ancursm or tuberculous or syphilitic infections.

Only seven cases certainly belonging in this category have been reported. In three there were purely spinal symptoms and at autopay extensive substantianous harmorthages were found. No spinal punctures were performed. In the four others the symptoms allowed the same diagnosis and spinal puncture relieved them by releasing a bloody fluid no no case the diagnosis as confirmed after death.

from bronchopne umonia

On the haiss of these few cases the following classification is suggested (1) an extensive form resembling Landry's paralysis (2) a cervical form which is apt to cause death by producing pressure on the vital centers (3) a dorsal form typified by the author's two cases and (4) a lumbar form in which sciatic pain and disturbance of the sphinicters predominate.

The differential diagnosis from acute meningitis sided by the absence of evidence of infection and

by the character of the spinal fluid

The etiology is obscure but it appears probable that a great variety of diseases which predispose to hamorrhage may provoke meningeal ham orrhage

The treatment consists in spinal puncture repeated as necessary to relieve the pressure. The prognosis is generally favorable although a subpial harmorthage is capable of producing permanent disturbance in the spinal centers.

ALBERT F DE CROST SED

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Biand Sutton Sir J. Hydrocephalus. A Study in Phylogeny and Pathology. Lanc 1 1928 ctrv 687

On each side of the cerebellum immediately ad jacent to the flocculus is a tuit of choroid plexus continuous with the choroid plexes covering the roof of the ventricle These tuits extend into each lateral rucess where the foramina of Luschka are found The orifice of the lateral reces is in contact with a depression on the inner wall of the petrous portion of the temporal bone which lodges the bulbous end of the endolymphatic duct. The third pomary vesicle develops into the fourth ventricle and villa sprout from the velum. It is not known just when the lateral angles of the fourth ventrale burst into the subarachnoid space but this probably occurs when the chorionic villi become active and the pressure of fluid makes vents through the least resistant parts of the wall. This activity occurs about the fourth month of mtra uterine life and if the escape of fluid is hindered the cavities of the brain become dilated an effect parallel with that produced on a kidney by blockage of the ureter The choroid plexus performs a function for the brain similar to that which the renal epithelium performs for the body in general and complete ob struction of the intraventricular communications is as immical to life as complete obstruction of both

The embryology of the brain indicates clearly that the primary vesicles form a closed sac and that communi ation with the subarachnoid space is secondary Failure of such communication brings on fetal hydrocephalus similar therefore to fetal hydrogenbrosis A study of the skull in the car tilaginous state shows on the inner face of the periotic cartilage an onfice posterior to the internal auditory meatus the aqueductus vestibuli which contains the endols mphatic duct and en is as a hulb under the dura. In contact with this bulb hes the lateral recess of the fourth ventricle Such protunity indicates a close relationship between the endolymph and the ventricular fl id Its certain cartilaginous fishes the endolymph is separated from the water only by skin and the auditory capsule lodging the bulb of the ductus endolymphaticus is in close re lationship to the orifice of the lateral recess In a study of embryo dogfish Alexander found that at the spot where the lateral recess comes into contact with the skull capsule the cartilage which else where is thick, is reduced to a thin membrane which alone separates the endolymphatic cavity and the fourth ventricle

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Gilbert C Anderson MD

Globus J II Communicating Hydrocephalus
So Called Idiopathie Hydrocephalus in I
Dis Child 1928 axxvi 680

With recognition of the causes of the vinous forms of hydrocephalus he term indepathed forms of hydrocephalus as being abandoned. One from of scientificates hypertrophy with states of the embroopinal fluid as due to an obstruction to the brospinal fluid as due to an obstruction to the control of the contr

The communicating type of his divergebalus as defined Dandy as norm that the vestible and the Particle and t

The author reports five cases diagnosed chinically as internal hydrocephalus in which at a topiy his injected India ink into the subarachnoid space by external puncture

In the same there was almost completed obligations of the subarachond channels patie usually at their origin from the eisterna. Left and an expectation of the subarachond channels are as and the pas arachond membrane retunel embrousdies are substantially and a developmental doctor features indicating that a developmental doctor space responsible for the failure of the subarach attribution channels. The absence of fever and of a huston of unfection in these two cases and the presence in Case 2 of another mulliornation spans both with

Hayks collected statistics show 107 cases of cerebral abscess following frontal sinus suppuration Fatension of the infection occurs most directly is the result of necrosis and perforation of the posterior plate and nett most directly as the result of throm bophlebits of veins anastomosing with dural veins Osteomy-this may al o be a factor

Osteoling pains may at order record organization as the Geiber states that the absence of symptoms as the most characteristic feature of this condition. Head adds in the most common is might one of the claiming was considered to the control of the claiming was the control of the claiming was considered to the control of the claiming was control of

The results following surger; show a high mor tality. Of ros cases reported by 2 observers 52 were operated upon but recover; resulted in only 22. The author believes that the mortality may be reduced by following the technique of king Elsberg.

or Cahill

Frazier C H Operation for the Radical Cure of

GLEBERT C ANDERSON M D

Trigeminal Neuralgia in Surg 19 8 lxxxviii

Frazier reviews over 1 200 cases of trigeminal neuralgiz 511 of which were treated surgically lle states that in his opinion the fifth nerve is

chiefly responsible for the sensations of pain touch and temperature in the face and for taste on the anterior two-thirds of the tongue

He describes his operative procedure for trigemi had rerulgia and gives suggestions for obviating some of the common difficulties. The advantages of conserving a portion of the sensor, root are enumerated and the postoperative management is described.

TRIC OLIPSES ON ID.

SPINAL CORD AND ITS COVERINGS

aroschy W. Late Injuries of the Spinal Cord— (compression Myolitis—with Severe Scolioses— (Leber Spatischae) gungen des Prockenmarks hompressonsmycht,—let «chweren Skoliose) But 8 hi Chri 1038 call 507

To two cases of congenita admoss that he reported previously the earlier and the reported previously the earlier and the reof his own and two cases needed as the case of his own and two cases needed as the second last five cases showed a very characteristic disease pattine. Without any external cause or any increase in the curvature there suddenly appeared in the size of the case of the control of the control of the size of the control of the control of the control is an of the control of the control of the control daturbances and occasionally slight bladder and restal disturbances.

Neurologically this disease picture i differentiated from that of other cord lesions by the fact

that the injury affects the entire transverse section uniformly without the complete loss of individual functions for a long time In propounced cases myelography shows a total permanent obstruction at the site of the lesion which usually lies at the level of the fourth to the seventh thoracic vertebræ In the effort of the dural sac and the spinal cord to adapt themselves to the curvature they are stretched over the angulation of the spinal canal and move against the concavity of the curvature being thereby pushed into that part of the spinal canal which as the result of the typical dislocation and deformity of the vertebral foramen in the dome of the curvature shows a distinct constriction in the samital diameter although it is not necessarily made smaller as a whole Consequently the nerve ele ments are affected more by a circulatory disturb once of the thin walled yeins and lymph vessels than to direct pressure. A venous stasis is produced in the spinal cord long before the nerve elements are

The investigations of Stewart Times and Riddoch have shown that the meningeal veins and the small intramedullary veins at the level of the compression and farther away are often greatly dilated and their walls thickened and that there is an ordema in the vicinity of the blood vessels below the site of compression and obliteration of the lymph space. Only after this process has been present for a long time do the nerve elements undergo degeneration. There then results obliteration of the arteries with local necrosis of the nerve elements. Many factors suggest that increased growth or disparity between the growth of the vertebral column and the growth of the spinal cord is responsible for the injury. In the five cases reviewed by the author this was indicated by the fact that the transverse lesson did not annear until the second half of the second decade of life although the scoliosis had been present since childhood

The treatment of choice in these cases is lamined tomy adequate enough to reveal the mechanical factors involving the cord. In the cases reviewed by Jaroschy there was no circumstribed pressure effect upon the spinal cord and when the dura was opened the cord prolapsed. However, the dura should be situated only when suture is possible without tension with a complete circle of the view operated upon with a complete circle of the view operated upon with a complete circle of the view operated upon with a complete circle of the view of view

STECEMANN (7)

Petit Dutaillis D. A Contribution on the Surgery of Splinal Cord Tumors Technique and Results in Twenty Personal Cases (Contribution 2 in churure des tumeurs intar architennes technique et résultats d apr s 20 cas personnel.) J de chir 1923 XXII 129

The treatment for spinal cord tumors is surgical treatment. The majority of spinal cord tumors are beingn chuckeahle and radio resistant.

Sargent Sir P On the Removal of Cerebral Tumors beit J Sure 1928 avi 303

The author describes briefly his technique for intracranial exploration and his method of removing the two types of tumor-endothelioma and circum scribed ghoma-which he believes can be extirpated His methods do not differ from those in general Le where electrosurgical procedures have not supplemented purely surgical methods. Sargent apparently prefers local excisio a to radical lobertomies. For cases in which the neoplasm involves important cor tical areas he advises decompression and roentgen therapo FRIC CEDRERG M D

Laschi G The Inclination of the Quadrilateral Plate in the Normal and Pathological Setta Turcica (Lincinazione della lamina quadniateral n lla sella turcica normale e patologica) Rad el med 1928 x1 785

The author shows the importance of the meader lateral plate in the morphology of the sella turcica its variations under pathological conditions and the great value of its position in diagnosis

He studied the inclination of the quadrilateral plate by making calculations on many roentgeno grams of normal and pathological skulls and deter mined the value of the angles between the perren diculars tangent to the chous the sphenoidal plane

and the plate it elf

One of these angles is the basilar angle or angle of Land ert which is generally known to roentgen ologists and is used by many of them in judging the inclination of the quadrilateral plate. This angle i of value however only in the very care cases in which the plate and the clivus lie in the same plane (6 per cent of the author's cases)

The angle which shows the constant and certain index of the inclination of the plate i that betreen the plate and the sphenoidal plane. This fact is confirmed by a study of the angles in pathological

In cases of tumor within the sella for example the basilar angle varies only within the limits of the normal while the angle between the quadrilateral plate and the sphenoidal plane falls below normal minimal values

The angl between the plate and the chvus is not of any special value as it may vary p rely on account of different positions of the clivus

Landzert 5 argle 15 of value in c2 e5 of acromegaly in which it is larger than normal.

AUDREY G MORGAN M D

Balado W and Franke E Anatomicosurgical Considerations Based on Siz Cases of Abscess of the Gerebrum (Consideracio es anatomo quirurgicas sobre se casos de absceso del cerebrol Arch argent de ne rol 1928 11 171

In three of the authors six cases of abscess of the brain the lesion was of traumatic origin and in two In one it was a metastas s The of otic ongin causes of death in the five fatal cases were meningues in three cases tachetia in one case and pout hypertension in one case

The pathologica anatomical picture depends some what on the stage of evolution of the condition When the walls of the abstess are well established seven separate lavers may be distinguished with the microscope From within outward there is firt the abreess content consisting mos ly of polyoudest leucocytes lymphocytes and fat cells all more or less fragmented The second layer is made up mostly of loose cornects e tissue cells of recent forms wa which contain globules of fat. The third later is made up largely of adult connective it sue New capillaries may be seen in this layer. The fourth layer is distinguished from the third by the pres ence of infiltrative elements plasma cells and large and small lymphocytes are distributed throughout the connective tissue elements. The fifth later to characterized by a greater number and more orderly arrangement of infiltrative cells. The inth zone shows destruction of nervous tissue and scant tissue reaction. The seventh layer is characterized by the destruction of nervous tissue with absence of inflammatory elements

Evacuation of the abscess is not sufficient to lower the intracranial tension. The hypertension is not not only to the size of the abscess but also to the ordema of the surrounding layers The treatment should include ample resection of the ab tess walls to healthy nervous tissue Simple drainage without treatment of the cerebral pyocenic membranes leaves the most active part of the process untouched WHIRLIER MEETER MD

Rhinocenic Frontal Lobe theress

Sprowl F G Report of Two Cases inn Olol Rhin ! Las yagat sga8 axxiii gas

Frontal lobe abscess complicating suppuration of the nasal accessory sinuses is infrequent as is evi dent from the fact that lewer than 150 cales have desertheless it is the most com been reported mon intracranial complication of such suppuration

The author's first case was that of a man of forty sears Several months after a purulent nassi di charge the patient developed headaches vomitin without naus a and vertigo with impairment of sisson Examination showed bilateral choked disk with hamorrhages Operation disclored put in the frontal sanus perforation of the posterior plate and a susus trac leading into a large abscess cavit

Dramage by tube was followed by reco er, The second case was that of a child of four een years who was operated upon for orbital te lulus and later developed headache malar e anorema and comiting Upon examination a beginning elevation of the disks with engorgement of veins was found Re-operation and exploration with a brain needle failed to disclose pus. At a subsequent explanation honever an abscess cavity was found. This ass unroofed according to the technique of King Three months later the operation was repeated and wis followed by recovery

Twelve intradural extramedulary tumors were operated upon with one immediate death. Two patients died three and four months after the operation respectively. The operative death was caused by a difficult to explain intracramal tension which forced the tonsilar lobes of the cerebellium into the foramen magnum. Of the late deaths one was due to a permanent paraplear, and the other to a unnary infection and a descibility sileer. There were more than the same of the complete and five almost more than the companion of the companion

In four cases of intramedullary tumors there was one operative Istality. The patient died after the first stage of a two stage operation. This was the oily case in which removal of the tumor secured possible. The apatients eventually succumbed from extension of the lesson. One has survived for two years under radiotherapy and its believed to be cured.

ALBERT F DE GROAT M D

Rieder Anterior Root Sensibility (Zur Frage der Vorderwurzel ensibilitäet) Ze stralbl f Chir 1928 ly 814

The question as to whether the antenor roots contain sensory fibers was investigated in experiments on sixty eight dogs. The posterior roots were divided and the animals then kept under observation for nine months. In forty five of the dogs a super ficial and deep sensibility were demonstrated. In the remaining thenty, three errors in the operation

were discovered at autopsy
After division of all the posterior roots from the

tenth dorsal downward there was complete absence

of sensibility in the lower extremutes. The abdominal sympathetic of the dog and the terricals impathetic of man show no pain conduction on electrical simulation in the absence of confecting loops. After division of the lower posterior crevital and all posterior dorsal lumbar and sacral crevital and all posterior dorsal lumbar and posterior dorsal crevital crevital crevital and the posterior dorsal crevital cre

In the discussion of this report, Lexikan's routed with at dissumfur animals were used for the experiments and that in the investigation of various factors such as the sensibility of the extremities the technique of the operation differed. He cited the build at Forsite demonstrated a dull pain sensa be that a forsite of demonstrated a dull pain sensa and that extensive resection of the posterior roots and that the different points and the control of the posterior roots are stated in the different points from the same root is further proved by the observation that even after division of the posterior roots the central stump of a divided anticorprot of its rostitute of paints.

In his concluding remarks. Rieden referred to the case with which errors may occur in division of the posterior roots and emphasized that proof of a

sensory conduction in the anierior roots can be established only by careful clinical observation con firmed by autopsy

FISCHER (Z)

PERIPHERAL NERVES

Forbes A A Note Concerning the Effect on Their Function of Stretching Nerve Trunks Aca England I Med 1928 ever \$53

Nerse trunks of frogs usually continue to exhibit their function after being subjected to considerable surgical trauma in dissection and removal but in the case of the sciatic nerve of the cat the author noted that action current failed to appear after ordinarily careful dissection with protection from dryning and other mixty.

To determine whether the failure of function was caused by tension during dissection static nerves were removed very carefully from decrebrated cass with the use of very sharp instruments and arranged so that tension could be applied to them and measured A tension of sign caused impairment of function and a tension of 100 gm caused impairment of function and a tension of 100 gm uplied for one second practically abolished action current.

In similar experiments on frogs it was found that a tension of 200 gm applied to the senate nerve produced no appreciable decrease in action current The frog is therefore able to withstand about ten

times as much trauma as the cat

If the difference in size between the sciatic nerve of man and the cat is taken into consideration it can be readily understood how the use of a tension of from 30 to 40 kgm in the treatment of setative produces a blocking of the sensor impules.

In anastomosing peripheral nerves, the surgeon is often compelled to apply tension and apparently it does not materially retard regeneration but the results of the author's experiments indicate that because of the susceptibility of mammalian nerves to tension even moderate stretching should be avoided if possible. Gingar C Voyagoo, VID

Schnek F A Complete Subcutaneous Tear of the Cervical Plezus (Subcutane vollstaendie e Zer rei sung, des Plezus cervicalis) (f. natszele f. Lufalli ilk u. Versieler i sym d. 1928 xxxv

The patient whose case is reported was a man who had been hit and knocked to the ground by a heavy had been hit and knocked to the ground by a heavy shoulder and right side of the head. The injure of sollowed by repeated attacks of vomiting. Learn matton received a contission wound in the right temporal region have right great and prairies of the right side of the right

On the lollowing day the right arm was greatly swollen as far as the shoulder and slightly cyanotic and exhibited complete flaccid paralysis. The

The aid of the neurologist is necessary to estab lish the diagnosis and to determine the level of the When this has been accomplished more exact localization by the injection of lipiodol is of great value usually enabling the surgeon to proceed directly to the site of the lesion In the rare cases in which the lipiodol and the neurological signs dis agree the surgeon should rely upon the latter

The contra indications to operative treatment are few According to Elsherg operation is futile when the condition has been present for longer than three years In the author's opinion it is contra indicated only if the paraplegia has been present that long The character of the paraplegia must also be con When the lesion does not involve the cauda a flaceid paralysis indicates irreparable destruction of the cord An eschar is of no impor tance if it does not involve the site of the pro-

Before operation any urinary infection or chronic nephritis should be dealt with as well as possible

In the author's eases the operation is performed under ether anasthesia induced by inhalation or rectal injection Rectal injection is used only when the operation is to be performed in the cervical or upper dorsal regions Lither is well supported even when the operation is prolonged to three and a half hours Local anasthesia is unsuitable because the

duration of the operation can never be foretold The patient is placed in the position of ventral decubitus Lowering the head increases rather than decreases the loss of cerebrospinal fluid By means of a sand hag the dorsal curse of the vertebral eolumn is increased or diminished depending upon

whether the tumor is dorsal or ventral to the cord In all except two of the cases reviewed lipiodol injection showed the exact location of the tumor The author tattoos a line in the skin exactly over the lower limit of the shadow since when this is done the field of the operation can be greatly restricted. An incision including three spinous processes is usually sufficiently long

The laminectomy is carried out according to the technique of Lecène In order to avoid devitalizing fragments of muscle which may later give rise to hæmatomata the muscles are separated from the spinous processes by sharp dissection

When the epidural fat is reached the field is most carefully inspected Inconspicnous extradural tumors will sometimes he revealed especially if thes are lateral and anterior An intradural tumor causing obstruction reveal itself by a fusiform swelling with pulsation of the dural sac cephalad to

the obstruction The incision of the membranes may be limited to the dura alone or include the arachnoid. In the latter case the dura is punctured and five minutes are allowed for the escape of the excess fluid In this way a massive escape the cause of many deaths is prevented. When the arachnoid is preserved a tumor may sometimes be removed with the loss of only a few drops of fluid

In the removal of the neoplasm the vascular pedicles are ligated with fine silk and sectioned and the tumor is then separated from the cord sile a blunt spatula This step is hindered by the continual accumulation in the wound of blood and cerebrospinal fluid The field is best kept dry by aspiration

When the tumor is ventral the cord may bulgento the wound It must not be mutaken for the tumor The tumor is rarely median hence in such cases the cord is usually rotated. The dorsal roots on the sile of the tumor are plainly visible while those on the opposite side are hidden. The tumor may often be seen between the roots Its removal untolves section of the dentate ligament and usually of one or two dorsal roots When the tumor is extradural the mode of approach is the same but the neoplasm is erpo ed by encising the dura

During the operation the blood pressure is determined by a I achon apparatus If the pressure falls below 100 mm the operation is stopped and

adrenalin is injected until it rises

When the tumor is firmly fixed to the dura and it removal must include the dura the defect may be sats factorily repaired with a graft taken from the lumbodorsal aponeurous Tumors of the cauda which are often large may be intimately attached to several roots their removal being therefore ex cessavely difficult and dangerous Elsberg advacts two-stage operation first mobilisation of the tumor outside the dura and second removal of the tumor which a few days later will have free i itself from the adhesions with the roots. In a case of large soft vascular fibroglioma which could not be re moved the author obtained a five year cure by ra dotherapy

Intramedullary tumors are usually diffuse giomata which extend longitudinally a considerable distance For these radiotherapy is the only means of treatment but is a feeble nne In eases of localized tumor the two stage operation is best. At the ant operation the cord is incised medially over the tumor At the second operation the tumor is found

to have enucleated itself

If hematomata are not formed the postoperative course is usually smooth Occasionally there is a high oscillating fever but this is evidently of persons origin To prevent eschars the patient should be placed on an air mattress and his position changed every two hours day and night The immediate operative course is most favorably influenced by injections of saline solution and adrenalin anthor gives from to to a mgm of adrenalin every two hours for the arst twenty four hours and every

four hours for the second twenty four hours In the author s cases a cure was obtained in 60 per cent The total mortality was 40 per cent

Two of the deaths were ammediate and six were late In the four case of extradural tumor there was no operative mortality Two of the patients ded later as the growths were malignant but the disea e was arrested for one and three years respectively by radiotherapy

Tache intradural extramedullary tumors were operated upon with one immediate death. Two patients died three and four months after the operation respectively. The operative death was caused by a difficult to explain intracramal tension which lored the inousilar lobes of the certebellism into the foramen magnum. Of the late death one was due to a permanent pranplesia and the other to a unnary infection and accupiting unfer- There were not complete and five almost complete cuter. The corresponding to the complete cuter and the control of the complete cuter. The corresponding to the complete cuter and the complete cuter and the complete cuter. The control of the promptiness of the operation and vancel from effert days to three west.

In four ca es of intramedullary timors there was one operative fatabity. The patient died after the first stage of a two stage operation. This was the oil, case in which removal of the timor seemed possible. Two patients eventually, succumbed from extension of the lesion. One has survived for two casts under additional to the survived for two parasunder radiotherany and is believed to be cured.

Albert C Dr. Groat M D

Rieder Anterior Root Sensibility (Zur Frage der Vorderwurzel en ibilitaet) Zen/ralbi f Chir 1928 17 814

The question as to whether the anterior roots contain sensory fibers was investigated in experiments on sixty-eight dogs. The posterior roots were dwided and the animals then kept under observation for nine months. In forty five of the dogs a superficial and deep sensibility were demonstrated. In the remaining twenty three errors in the operation were discovered at autorsy.

After division of all the posterior roots from the tenth dorsal downward there was complete absence

ol sensibility in the lower extremities. The abdominal sympathetic of the dog and the cervical sympathetic of the dog and the cervical sympathetic of man show no pain conduction on electrical situation in the absence of conceiving loops. After division of the lower posterior of the situation of the situation of the signature of

In the discussion of this segort. Lemishs pointed with at dissemilier animals were used for the experiments and that in the investigation of various such as the sensibility of the extremities factors such as the sensibility of the extremities factors such as the sensibility of the extremities fact that pue of the operation differed. He cited the fact that pue of the operation of the posterior roots and that resection execution of the posterior matter or costs required in the loss of off exponding anterior costs required in the loss of off exponding anterior to such control of the anterior to such control of the anterior to such control of the anterior factors is further proved by the observation that even strong the posterior proofs the central stump of a dayled anterior root is sensitive to pain.

In his concluding remarks Rieder referred to the case with which errors may occur in division of the posterior roots and emphasized that proof of a

sensory conduction in the anterior roots can be established only by careful clinical observation confirmed by autopsy

Fischer (Z)

PERIPHERAL NERVES

Forbes A A Note Concerning the Effect on Their Function of Stretching Nerve Trunks Aca Incland I Med 1028 CCCR 555

Nerse trunks of frogs usually continue to exhibit their function after being subjected to considerable surgical trauma in dissection and removal but in the case of the scattic nerve of the eat the author noted that action current failed to appear after ordinarily careful dissection with protection from drying and other injury.

To determine whether the failure of function wis caused by tension during dissection scattle nerves were removed very carefully from decerebrated cats with the use of very sharp instruments and arranged so that tension could be applied to them and measured. A tension of zg gm cused impuriment of function and a tension of roo gm applied for one second practically abolished action current.

In similar experiments on frogs it was found that a tension of 200 gm applied to the scattic nerve produced no appreciable decrease in action current. The frog is therefore able to withstand about ten times as much traum as the cat.

If the difference in size between the scratic nerve of man and the cat is taken into consideration it can be readily understood how the use of a tension of from 30 to 40 kgm in the treatment of scratical produces a blocking of the sensory impulses.

In anastomosing peripheral nerves the surgion is often compelled to apply tension and apparently it does not materially retard regeneration but the results of the authors experiments indicate that because of the susceptibibit of mammalian nerves to ten ion even moderate stretching should be avoided if possible. Gitsext C ANDRO N ID

Schnek F A Complete Subcutaneous Tear of the Cervical Plexus (Subcutane vollstaendige Zer rei sung des Plexus cervicalis) Monatiseir f Lifatheilk at Versicherungsned 1928 xxx 22

The patient whose case is reported was a man who had been hit and knocked to the ground by a heavy transmission belt which struck him on the right shoulder and right side of the head. The injury was followed by repeated attacks of vomiting. Examination revealed a contusion wound in the right temporal region hambershage from the right inner ar a subcompunctival hambarom of the right emporal region and the right leads to the right should be extremited was normal except in the muckles of the extremities was normal except in the muckles of the extremities was normal except in the work to extravasions of blood or skin abrasions in the region of the right shoulder tourt.

On the following day the right arm was greatly swollen as far as the shoulder and slightly cyanotic and exhibited complete flaccid paralysis. The temperature of the skin of the arm was increased and the radial pulse was absent. Later the pul e could not be felt over the radial brachial or sub clavian artery

At operation the subclevans arters, showed no pulsation. The roots of the fourth filth and seventh nerves were found torn out of the vertebra: A puce of the sixth enter 2 cm long remained. The elastick was temporarily reflected. At the site of the contraction of the contraction of the form of the contraction of the co

I ates there was a return of skin sensibility from rethe shoulder to the elbow but the entire are remained atrophic and without the capacity for active motion. Find joint developed in the shoulder I assively sill of the joints were freely movable. The accident overstricthed and fore may the may be reroots and brought the clasicle forcibit against the first rh is to that the intims of the subclayma net, crught between the two was so badly squired that thrombosis occurred. If many C. If it is not the superior that

SYMPATHETIC NERVES

Crile C W Clinical Studies of Adrenakcroms and Sympathectomy Ann Da g 1928 Irrevut 4 0

Twenty nine cases including thirteen of epideps four of neurastlens three of endarterins obliterans five of hypertension and lour of hypertension with hypertension were treated by adrenslectoms with hypertension were treated by adrenslectoms alone by adrenslectoms with thyroidectoms and sympathectoms or by sympathectomy alone.

In endartenits obliterans and hypertension the results were needigable and in neurasthenia their were inconclusive. In equippy, the results of adren alections with threedections were encouraging. The end results of the treatment of hyperthy nodes in by a considerable comparisons to the reported but the early results show marked minrotivement.

LEO W Desuppy M D

Palms R An Anatomicohistological Study of the Effects of Removal of the Perineurial Sympt thetic (Studio anatomo isloby, co sull a portazione dei simpatico pennervoso). A n tal d h g 8

VIII 775

I he mived nerves contain a simpathetic fibers most of which run in the pencearium. They pass out from the nerve trunks and enter the adventus of the essels of the region. Some of them are centrapetal and transmit the sensation from the arteries to the cent is and some of them are centrapetal and transmit the sensation from the arteries to the cent is and some of them are centraligal. Until a few years as the central conditions could be cured an approximation and the central approximation of the properties of the central central

cases operation on the perincurial sympath tic has been eastred out successfully but so far as the author is aware no histological study has been made of the effects of removal of the perincurial sheath

Palma performed penneural sympathectus; on the scartinent of dogs and studied its effection blood supply of the meries and on the merie then scheen. It as amainst imaged for a few day, the thickness is a mainst imaged for a few day, the thickness of the scheen and the scheen area of transless were mercased in size by controll tissue which replaced the estimated sheets and formed adhesions with the zero and with the ser rounding issues? A dense methy formed consenius usase was substituted for the near should be supplied to the scheen and the scheen and the scheen are distinctly the scheen and the scheen are distinctly but empty and operation.

the superficial anastomoses that developed were that it is to apply the nerve dequard. Unage occurred in the nerve fibers beginning with a few days after the operation and steep regional charge occurred in the new cells. Within from betty days after the operation specimens input noted with a strength of the control of the strength of the control of the control of the strength of the control of

MISCELLANEOUS

tan Bogaert L and testrugge J The Pathogenesis and the Surgical Treatment of Gattle Leists of Fabes Neuroramisectomy Str. Greec to Obs. 10 B this 513

According to the authors theory of the mechani m of visceral pain a peripheral stimulus reactes the Lord and puts it into a state of activity which prosoles exaggerated motor reactions in the organ concerned leading to hyperfunction with rapid of haustion of the organ Soon the mu cles of the org cease to be excitable the vi cus becomes di tended and the distertion contributes an obstacl to the passage of the trapulses. The blockage of the imput es overloads the afferent sympathetic system and results in stimulation of the corre ponding final segment which is manif sted by contracture and pain in the respective metameres Pain ongu at ? in the panetal peritoneum is tran mitted by the satercost il and phrenic nerves whereas that ong at ing in the visceral peritoneum i transmi ted by the splanchnics Operations for the relief of such pain have been performed from the peripheral neuron up to the central nervous system

In tabes the thoracovisceral paint of three types (1) pain with metameric lopographs as repreceed by the self-known gridle paint (2) sympthetic pain in sheets pain in airs of variable extent without radicular or neutric distribution—which is continuous and superficial undergoes exacerbations causing sensations of contusion constriction or crushing and resists most analgesic measures (3) deep gastine pain with sensory motor reactions such as nausea vomiting and gastric hyperkinesia Nausea and vomiting are predominant symptoms and may occur separately or together or with in

tense head pains

The gastic cross of tabes is an irritative syndrome of the allerent gastic pathways. Therefore the original registrict and the sage must be considered in dealing with the day must be considered in dealing with the sorier. There are two main types of crises the sympathetic and the wagal. The former occur what arthopathness visceral anaesthesia permanent tachy cardia and aboliton of the occloserative reflex that later with larry neopsism abdominal pain and parons using of suborders and exatterithers.

The repetative combbrium of an individual at a given time is an expression of the integrative action of the sympathetic and the parasympathetic nervous systems The pathological vegetative phenomena result from a series of disturbing factors including (1) modification of the normal amphotrophism of the subject (2) a local lesion of the organs (4) a lesion of the extravisceral or other efferent nervous paths capable of influencing the vegetative functions and (4) the functional state of the afferent routes. It is important to determine whether there is a particular mechanism and therefore a particular form of treat ment for each variety. In four cases (three amphotonic and one vagotonic) which were carefully stud sed for more than three years detailed observations fuled to indicate whether intervention should be in the sympathetic or the vagal system Pharmacody namic tests were no more final Foerster has in sisted upon such a differentiation and would use the radiculospinal type of operation for the splanchnic on and section of the sensory root of the vagus for the vagal crises. He has suggested also the import

ance of the phrenic nerve in certain gastric syn

dromes of tabes which are characterized by pain in

the shoulder hyperalgia of the neck and hiccough without nausea or vomiting

The authors are opposed to a too strict separation of types sympathetic vagal and phrenic as in most cases there are symptoms of all three types vegeta tive studies cause confusion and pharmacodynamic tests do not solve the problem. The gastric crises of takes are essentially a syndrome of irritation of the afferent pathways of the stomach at the level of the spinal roots or the root of the vagus and it is certain that the majority of the connectors of the gastric sensibility pass through the solar plexus the splanch natus major the ganglionic and vertebral chain and the white rams and reach the cord through the dorsal roots from the sixth to the tenth or even the twelfth Posterior radicotomy has not been uni formly successful and for some years Foerster has resected the anterior roots as well. The role of the antenor roots in the conduction of sensibility has been sustained by other authorities. Lehman be heves that the anterior root alone conducts deep and visceral sensibility but recent research leads him to conclude that the law of Bell holds true in man and all experimental work tends to prove that the sensi hility goes exclusively through the posterior roots After examining patients subjected to section of both posterior and anterior roots as well as the spino thalamic tracts Toerster concluded that there must be extraradicular routes by which pain can reach the central nervous system and that one of these may be the sympathetic and the rami communi cantes

The authors have tried to abolish pain by section ing both anterior and postcroir roots estrayerte bralls by section of the intercostal nerves and combining this with resection of the corresponding rams communicantes. The technique of the operation is described and case histories are cited which seem to prove their conclusions to be correct at least so far as these particular cases were concrete.

GILBERT C ANDERSON M D

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Lockwood C D Malignant Turnors of the Walf of the Cliest Arch Surg 1928 xvii 459

Lockwood reports a case of chondrosarcoma and a case of sarcoma of the chest wall the former treated by operation and radium irradiation and the latter by operation with both \ ray and radium

He states that the majority of tumors of the chest wall are malignant. The most common types are the sarcoma and the chondrosarcoma tumors usually recur after removal. The best treat ment is thorough removal followed by radium or RALPH B BETTHAY M D

Cheatle G L Chronic Mastitis noma and Adenoma of the Breast Cyato 4de Surg 1928 XVII 535

Cheatle states that the morphological appear ances of chronic mastitis are identical with those of the physiologically active state of the breast at birth at puberty and in certain phases of factation This active state hecomes pathological when it is present between the thirtieth and forty fifth years of age and develops an excess of desquamative epi thelial hyperplasia which induces pain by distention It possesses the same hability as the breast at pu herty to form fibro adenomata which may or may not develop acini within their formations of tumor The author has substituted for the term chronic mastitis the term desquamative epithelial byper plasia Type A

He believes that the term cvsto adenoma is a misnomer that the growths to which it is applied do not become cystic and that they cause only a dilatation of pre existing ducts and acini He be lieves that there are usually a series of separate tumors-papillomata and sessile epitheliaf growths in pre existing acini and ducts. The condition is usually more diffuse than it is generally supposed to be It is also as dangerous as the multiple adenomatous papillomata of the colon

Pure adenoma of the breast is rare and is a benign tumor It differs from cysto adenoma in presenting a massive new formation of pathological adenomat HARRY W FINE, M D

Hayward The Bleeding Breast Especially in the Male (Ueber blutende Mamma insbesondere beim Mann) Zentralbi f Ch 1928 ly 1053

The question of the danger of the bleeding breast is still unsettled Whereas Haas Gebele and others consider this condition harmless Klo e believes st to be very serious as be sees in it a precancerous stage demanding amputation of the breast with ex-

tirpation of the axillary lymph nodes Because of this difference of opinion surgery must assume a standpoint which will give the practitioner whoses these cases first something to guide him in his

The author reports a case of bloods secretion from the nipple in a man a very rate occurrence since up to the present time only 4 cases have been reported whereas about roo cases of bloody secretion from the female breast are on record The patient aged fifty eight years came to the hospital for treatment for hypertrophy of the prostate. The secretion of blood from the mpple was only a councidental finding The left nipple appeared somewhat pushed to the side by a mass the size of a plum which was somewhat tender A chocolate colored fluid e-caped from this mass on pressure and also spontaneously An oval incision was made and the breast glands were removed with the tumor Microscopie ex amination showed the neoplasm to be a papillan a denoma

After reviewing the literature the author comes to the conclusion that the disease described is bleeding breast does not represent a disesse entity and that in every case a thorough microscopic examination should be made if posible before

In the discussion of this paper WENDEL reported 4 cases of bleeding breast in females He did not extirpate the breast in any case and in no instance did he observe the development of a carcinoma The condition was interstitual mastitis in which the bleeding is oceasionally periodical and apparently dependent upon menstruation In a cases there were also small papillary tumors in the excretory ducts Wendel did only a partial extirpation up to half of the breast gland He emphasized that his findings vary considerably from the results reported in the English and American literature

STRED & stafed that he considers the bleeding breast a precarcinomatous disease requiring extupation of the entire breast. In young women the portions of the gland remaining after partial extirpation of the breast cause trouble which is another reason for

complete extirpation

WREDE discussed cases of bleeding breast in which no tumor is palpable. In such cases there are tiny papillomata in the excretory ducts. In a case of this type which Wrede has bad under observation for six and one half years there has been no change and no tumor has formed Wrede therefore believes that the unconditional demand for immediate sacrifice of the breast is too radical. He recommends exterpation of the glandular tissue but if maig nancy is not demonstrable he prefers to preserve the skin and to transplant fat under it so that the

cosmetic effect will be preserved. He presented a patient who was operated upon in this way one and one half years ago. Rosensure (Z)

Buchholz The Treatment of Carcinoma of the Breast (Die Behandlung des Mammacarcinoms) Zentralbl f Chir 1928 lv 1040

The author reports upon his experiences with 384 cases of carcinoma of the breast which were treated in the period between January 1 1906 and March 31 1924 in the Alstadt Hospital in Magdehurg Twenty six were in the first stage 8 in the second stage 206 in the third stage and 80 in the fourth stage (Tuebingen classification) Twenty six pa tients of whom a were in the fourth stage and 3 in the third stage were not operated upon and died within three years. Within the period of observation under consideration there were 218 deaths-13 from the direct and indirect effects of the operation 21 from intercurrent diseases 6 from unknown causes and 178 from recurrences or metastases of the carcinoms (among the poor results are included the cases of 64 patients who could not be traced)

Three types of roentgen irradiation were carried out

Period t January r 1906 to July 1 1911 multiple field irradiation with a 3 mm aluminum filter and frequent small doses repeated at short intervals.

I enod 2 July 1 1911 to October 1 1919 irradia tion with the use of a 5 mm aluminum filter and an

increase in the intervals and dosage
Period 3 October 1 1919 to March 31 10 4
irradiation through 3 large fields (Wintz) with
repetition of the irradiation after from three to six
months

Radium was always used in addition to roentgen tradiation

In 117 cases only surgical treatment was given but in 237 cases operation was followed by irradia ton Of the pritients in these 2 groups (those with operation only and those with secondary irradia ton) 20 (24 per cent) of the first group and 13.8 kg per cent) of the second group were alves after five years 27 (23 per cent) of the first group and 14.8 cases 127 (23 per cent) of the first group and 14.9 (14 per cent) of the second group were alive after five years of the second group were alive and 21 (3) % per cent, of the second group were alive and 21 (3) % per cent, of the second group were alive after five years pears and if 11 % per cent) of the first group and 34 (24 per cent) of the second group were alive after the years.

Of the patients subjected to combined treatment in the first period 43.8 per cent showed no resurrences after three years and 3.3 per cent showed no resurrences after three years and 3.3 per cent showed no resurrences after five years and 43 per cent showed no resurrence after five years and 43 per cent showed no recurrence after five years and 43 per cent showed in the third period 1.5 years Of those so treated in the third period 1.5 years of the years and years of the years and years of the years and years of the years are years of ye

than those in the second period. The author there fore concludes that prophylactic roentgen treatment after operation gives good results when the method used in the second period is employed. He is as yet unable to report upon the results of the more recent irradiation procedures advocated by Meyer and by Holfelder.

In the discussion Wender stated that he reported good results from secondary irradiation therapy in

Lorsch discussed the relationship of the histo logical structure of the carcinoma to the danger of metastassa and summarized his conclusions in the following sentence. We cannot say at the present time that the surgeon is duty bound to recommend roentgen irradiation after every extirpation of the breast for carcinoma.

PLUTCKER said that spece it has been shown in this report that the results with roentgen utradition are thetre than those without irradiation patients who have been operated upon in smaller hospitals which are not equipped with modern appractus should be referred to a specialist in roentgenology for after

treatment

KEMF reported that he has seen very many
severe toentgen burns in the smaller hospitals in and
near Braunschweig and that postoperative roent
gen treatment should be given only by thoroughly
experienced roentgenologists

Lorson stated that he had ordered a roentgen apparatus for diagnosis but he has refused to allow the installation of an apparatus for therapy unless a fully experienced roentgenologist is employed—a

demand which a small hospital cannot meet WEIDEL repudiated the claim of Weinert made at the Surgical Congress of 1936 that metastases are already present even in early cases since it has been proved that Weinert's cases were not in the

TRACHEA LUNGS AND PLEURA

ROSENBURG (Z)

early stages

Hill L The Ciliary Movement of the Truches Studied in 1 itro Lancet 1928 cerv 802

Ifill studied the ciliary movement of the traches in the horse sheep rabbit hen and frog under various conditions. The rate of transit of a foreign body (fine suspension of fampblack) was nearly the same in all-about 1 cm in from twenty to thirty seconds Changing the position of the trachea from the horizontal to the vertical decreased the rate one half The rate was increased all o by stretching of the tracheal mucous membrane Trauma caused arrest of the suspension at the point of injury When a small area of mucous membrane was sepa rated from the submucosa and replaced the rate of movement continued to be the same in this as in other parts of the membrane There was an in crease in the rate with an increase in temperature In the case of the horse trachea the optimum tem perature was 42 degrees C and in the case of the hen trachea 44 degrees C Small doses of ultra

volet rays did not accelerate the cihary movement whereas larger does slowed or stopped the cibia. The rate of cihary movement was not affected by a deficiency of Vitanins A and D in the diet. Chloroform was found to be much more prosnous to ciha than ether. The effect of numerous other drugs and vapors was also determined.

Hill believes that his method of study lends itself readily to tests of the foricity of solutions and variets used on the respiratory membrane

JACON VI MORA VI D

Baum II L Acute Laryngotracheobronchitls

J im M Ass 1928 xcs 2097

Observations nere made on a series of trents, four cases of acute languageracheobenchats which were so severe that it become necessary to introduce a tube to prevent asphyration. Most of the cases were associated with acute respiratory tract infection. In two the condition was a complication of measles and in four was associated with a foreign body in the lung.

Laringstrackeokonochith occurs almost evid soviet in children It begins as an cate minute and phan pagits with a dry croupy cough. Gradually and progressively signs of re puratory embarrass ment develop. There is retraction of the superstream and aupractiouscular spaces. As the condition progresses cyano is associated with paleness becomes quite marked. The cuancius son obs sucreas est seen in acute faryingeal obstruction but is characterized by a definite palienes due to exhaustons. In the authors opinion, the exhaustion and carelaction of the cuancius of the control obstruction being more severe.

In the diagnosis of the condition roentgenograms are important as the blocking of various bronch; can be ascertained thereby The obstruction is usually due to a subglottic swelling of the mucous mem brane. As the vocal cords are seldons involved, the voice is only alightly impaired in contrast to obstruction from laryngeal diphthena Glottic spism may occur The not infrequent subnormal tempera ture is occasionally due to insufficient exvgenation The mucous membrane lining the bronchs is dry there being little secretion The secretion is so tenacious that it i very apt to plug the bronchus In the cases of three patients who had been suh jected to tracheotomy Haum was able to relieve the dryness of the bronchial mucosa by substituting an intubation tube for the tracheotom) tube. He be heves the the drying of the secretion is due to the entrance of air into the traches directly through the tracheotomy Therefore he advocates the use of an intubation tube before resort is had to tracheotoms If the lary ageal obstruction per 1sts for longer than three weeks he introduces a tracheal cannula None of Baum's patients was over mne years of age 45 therapy Baum advocates intibation for at least three weeks At the end of that time tracheotomy may be done. In cases of obstruction from plugbronchoscopy with aspiration is indicated

Of the author's twenty four patient ten ded The cause of death was bronchopneumonia in low cases lobar poeumonia in three cases industrial pneumonia in two cases and plugging of smiller bronchi in one case

Acros Ocisses 415

Wright A J M Silent Tracheotomy Its St nificance Proc Roy Soc Wed Load to 3

The author points out an unusual but easily recognized accident which may occur during open tions upon the upper air pas a es or mouth. It is recognized from the silence following trachrotomy performed for audden and absolute cessation of resperation during such operations is is the case following an overdose of anxishetic there is no cough and no spontaneous attempt at respective No air enters on artificial respiration although there is no esidence of glottic obstruction. When the trachea is opened no sound is noted. The cause of these phenomena is a plug of tissue or small ponge which has slipped down and lodged at the traches beforeation The plug may be readily removed by the blind introduction of forceps throu h the ira PRINT B BERRY M.D. cheotomy wound

Jackson C Bronchoscopy Past Pre ent and
Future Sem England J Med 1928 excis, 7 9

Bronchoscopy as a development of the htygent. The first bronchoscopic treatment worth of mention was the use by Coolings in 1856 of an open unchrotope to remove a portion of a hd rubber tracheotomy cannula from the r_h hire dithrough an already present trach colour 6 the About six years later a duta | lighted bronchoscope was subsented.

Improvement of the technique the devel prestof teamsock, and the elimination of general auxiliariate bas brought bronchevery to such a dig ed feet fection that 93 per cent of aspirated force a bodies may now be removed through the mouth with a mortality of less than 2 per cent.

A few of the most important is coveres mile possible by the development with viewn of examine the trachedomoral live as mentioned and the star mentioned and the star mentioned to the star of the sta

Laustic Act was enacted to provide for the labelling of all household he products with the word pot son. This will help to prevent structure of the c sophagus in children. Another outgroat of broachoscopy has been the timercan Broachoscopic Society which has now fifty active members.

The present activities of the bronchoscopic chair

are enumerated as follows

1 Endoscopy for research Endoscopy has greatly facilitated the study of pulmonary physical ology and pathology. It affords a mechanical means for the placement of materials mert as well as in fectious in the lungs and of observing the local as well as the general effect produced.

2 Endoscopy for foreign bodies. This represents to lay only about 2 per cent of the endoscopic examinations performed. The other 98 per cent are for the diagnosis or treatment of diseases.

3 Endoscopy for disease. In all dreases of the mediastinum hypopharyne asophrgus and stom ach direct vi ion biopsy and direct therapeutic or operative measures have been added by endoscopie developments to the resources of the physician and surreun.

Among accomplishments in diagnosis and treat ment is direct laryngoscopy. I ormerly it was im

po able to look at the larvny of a baby

Bronchoscopic aspiration of suppurative foci which

can be disasted through much harmlessly II is without grantly and the defensive power of the lung sumparament of the defensive power of the lung sumparament of the defensive power of the lung sumparament of the grantly and the grantly and

In the treatment of pulmonary suppuration following tonsilications bronchoscopic aspiration is the method of choice in the incipient stage

Since bronchoscopic studies have revealed the cause of a fatal form of septic bronchitis due to vegetable substances especially the peanut kernel it is now appeal.

it is now possible to prevent this condition.

In spruchytosis and Vincent's infection, the diagnosis of bronchial involvement is made from uncontaminated specimens removed from the bronchi

through the bronchoscope
In many cases of supposed asthma the broncho
scope has revealed some form of mechanical obstruction of the bronch. Here

scope has revealed some form of mechanical obstruction of the bronch: Hence the author's aphorism All is not asthma that wheezes The mechanism of postoperative massive collapse

of the impression of postoperative massive collapse of the ling was affected by the earl substantiated before the control of t

4 Education of the undergraduate The student is instructed regarding the symptoms diagnosis

prognosis and prophylaxis of foreign bodies in the air and the food passages but receives no training in the technique of bronchoscopy

g Education of the graduate. The technical difficulties of endoscopy and the methods of doing it along the systematic lines that have proved satis factory are being offered in the larger postgraduate schools.

6 Education of the public Civic organizations re being used to educate the public in prophylaxis Such instruction will prevent about 85 per cent of the cases of foreign body in the air and fool pix sages and 00 per cent of the cases of 15 e stricture

The author believes that in the future massive atlectasis and suppurative disease will be treated by bronchoscopic aspiration a a first resort rather than by oparates and antibectics which only linder spontaneous drainage by paraly ring the cough refer and that the surgeon the internst and the rocnigenologist will ask the bronchoscopist to add unportant disarrosist information to their findings.

EDWIN KIRKPATRICK M D

Edwards A. T. The Surgeon's Point of View of the After Effects of Surgical Procedures in Pil monary Tuberculosis Bril VI J. 1758 ii 602 Chandler F. G. The Physician's Point of View of the After Effects of Surgical Procedures in Pulmonary Tuberculosis Bril VI J. 1928 ii

Envaron states that cases of pulmonny tuber culosis in which the condition has become retive again after the induction of artificial pneumothorax invariably respond well to thoracoplasty. The development of purulent fluid during artificial pneumothorax as a six and an infected tuberculous emplye man for which dramage has been established. Thoracoplasty is indicated generally in cases in which complete unlateral ritificial pneumothorax is indicated but before it is performed great care must be taken to establish the presence of absence of activity in the catallish the presence of absence of activity in the an extended trial.

A prelimienty phrenic evulsion followed by a two stage thoracoplasty from the first to the tenth rib is advocated by the author Apricol'sis and phrenic evulsion are discussed briefly and the results in hity nine surgically treated cases of pulmonary tuberculosis are summanized

CHANGLER di cusses briefly intrapleural meumolissis phrenic evul ion apicolysis thoracoplasty and oleethorax. He emphysizes the importance of not allowing the patient who is not doing well to pass beyond the stage in which artificial pincumothorax might be beneficial.

J trink Doughty M D

Joannides M The Etiology of Pulmonary Ab

From experiments carried out on dogs the author concludes that the following factors are of violet rais dul not accelerate the critary movement whereas larger doses slowed or stopped the citia. The rate of clinary movement was not affected by a deficiency of Vitanians A and D in the diet. Chloroform was found to he much more prosonous to citia than ether. The effect of numerous other drugs and vapors was also determined.

Hill believes that his method of study lends itself readily to tests of the toxicity of solutions and vapors used on the respiratory membrane

Iscon M. Mora M.D.

Baum II L Acute Laryngotracheobronchitis
J Am M Azi 1928 xx1 1997

Observations neer made on a segre of faculty four cases of acute lan pagintracheobouchits which were so severe that it become necessary introduce a tube to price out apply auton. Many of the conservation state of the conservation of the condition was a complication of measles and in four was associated with a foreign body in the limit of the condition was a complication of measles and in four was associated with a foreign body in the limit of the condition was a complication.

Livingstrackeobroachitta occurs almost exclusively includine It begins as an acute huntur and phan rights with a dry croupy copy. Gradually and progressively signs of registratory embarrass ment develop. There is retraction of the suprasternal and superalsvicular spaces. As the condition progresses cyanous associated with paleness becomes quite marked. The cyanois is not so severe as that seen in acute larginged obstruction but is characterized by a definite paleness due to exhibition. In the composition of the control of the

In the diagnosis of the condition roentgenograms are important as the blocking of various bronchi can be ascertained thereby The ob truction is usually due to a subplottic swelling of the mucous mem brane As the vocal cords are seldom involved the voice is only slightly impaired in contrast to ob struction from laryngeal diphtheria Glottic spasm may occur The not infrequent subnormal tempera ture is occasionally due to insufficient oxygenation The mucous membrane hinng the bronchi is dry there being little secretion The secretion is so tenacious that it is very apt to plug the bronchus In the cases of three patients who had been suh jected to tracheotomy Baum was able to rehere the dryness of the bronchial mucosa by substituting an ir tubation tube for the tracheotomy tube. He be heves that the drying of the secretion is due to the entrance of air into the traches directly through the tracheotomy Therefore he advocates the use of an intubation tube before re ort is had to trachestomy If the larving all obstruction persists for longer than three weeks he introduces a trachest cannula None of Baum's patients was over nine years of age ha therapy Baum advocates intubation for at least three weeks At the end of that time tracheotomy may be done. In cases of obstruction from plugs bronchoscopy with aspiration i indicated

Of the author's twenty four patients ten died The cause of death was bronchopneumous in fee crases lobar pneumonia in three cases inflored pneumonia in two cases and pluggin of sinker bronchi in one case

Altrov Ocsswa 31.D

Wright A J M Silent Tracheotomy Its \$4 milicance Proc Roy Soc M d Lond 19 9

The author points out an unusual but easily recognized accident which may occur during over tions upon the upper air passages or mouth It is recognized from the silence following trachestomy performed for sudden and absolute cessation of itsparation during such operations. As is the case following an overdose of anasthetic there is to cough and no pontaneous attempt at re pirative No air enters on artificial respiration although there is no evidence of glottie obstruction. When the trachea is opened no sound a noted. The cause of these phenomena is a plug of tissue or small porge which has slipped down and lodged at the tracted bifurcation The plug may be readily removed by the blind introduction of forceps through the tra FRANK B BERRY MD cheotoms wound

Jackson G Bronchoscopy Past Present and Future Vea Lugi and J Med 19 8 cuc v

Broachescopy is a development of the last thrivears. The first broachescope treatment such simulations was the use by Coolings in 160 or open erethroscope to zeroove a portion of a ked rubber trachectomy cannula from the nght browth through an aircady present trachectomy fit was about any years later a destall lighted broache.

scope was invented.

Improvement of the technique the devel pure of
termwork and the elimination of general area be a
has brought bronchescop; to such a starce of pri
fection that of per cent of aspirated foreign bodies
may how be removed through the mouth with a
mortality of less than a per cent

A two of the house a proportion deceevers and possible by the development of this means of a sminuse the tracheolomechiad tree are neutron field to the defense power of the lung against a tree infection was demonstrated when the deeper bond were shown to be practically sterile. As the lance was approx hed bacteria were found in necessar numbers. The two obvious demential risk effect in power are the cough reflex and the ciliary action may be a supported to the cough reflex and the ciliary action the citology of supportative disease of the ling. As an outgrowth of bronchescope, the First.

Caustic Act was enacted to provi! for the ladding of all household the products with the word pol son. This will help to prevent structures of the ecoophagus in children. Another outgrowth of bronchoscopy has been the American Bronchoscopi Scorett which has now lift active members.

The present acts thes of the bronchoscopic class

are enumerated as follows

Congential syphilus rarely, involves the excephages in the secondary stage of syphilus a severe esophagits may cause dysphagia but this disturbance rapidly responds to treatment. In tertiary lues local used gummata occur usually in the upper or lower that of the canal and on rupture produce a gum matous useer with clear cut edges and an unhealthy statuton of the lumen.

The diagnosis is not always easy. The disphagia is usually pailless upleas a phazy aged lesson is present. Signs of syphilis are found elsewhere in the boly. The cosphagia lasting for from four to twelve months before the true nature of the lesson is discovered. Direct local examination is necessary to disagnally lattic stemons from other varieties of disagnals lattic stemons from other varieties of mattriburacie cause of extrained possible as introduced in the contract of the contract of

Gaopheroscopy is absolutely necessary to commend the diagnosis Biopsy must be performed be cause non ulcerating guinnata closely resemble can era A negative Wassermann reaction should not lead the diagnostiuan astray as many lucture in the cuttary stage, have such a reaction. Very often the diagnosis may be confirmed by a serological study of the spinal fluid. On the other hand one must be careful not to jump at the conclusion that a linetic timo is present in the ecophagus when the Wasser mann reaction is strongly positive. Many patients with tancer also have syphilis.

The treatment of esophageal syphilis consists in anti-syphilis measures and frequent dilatation of the esophagus with bougues

The author reports two cases in which complete

recovery resulted Morris A Stocus M.D.

Friedenwald J Feldman M and Zinn W.F.

Ulceration of the Esophagus Experimental Study Arch Int Med 1928 sln 521

From experiments on dogs the authors draw the following conclusions

I Ulcers of the ecophagus produced by the removal of a small section of the ecophageal wall through the ecophagoscope will heal readily within a week.

When esophageal ulcers are treated with a to per cent solution of hydrochloric acid they will become chronic and their healing will be markedly retarded

3 Lerforation is a frequent occurrence when deep penetrating ulcers are treated with acid

4 Uncomplicated ulcers heal readily and do not form strictures

5 In most cases of ulceration of the esophagus ray examination reveals defects and spasm which are characteristic

are characteristic
6 Large penetrating ulcers may simulate diver
ticula
7 An ulcer of the œsophagus is clearly demon

strated on ecophagoscopic examination

MISCELLANEOUS

Roberts F Errors in the Interpretation of Radio grams of the Chest Brit M J 1928 11 509

In the ordinary method of roentgenography of the chest with the mentgen tube at a distance of or less from the film considerable error is introduced by the divergence of the rays It is the purpose of this article to show how misleading such errors may be and how they may he reduced to the minimum Detailed descriptions and illustrations are given to show exactly how they are produced They may he responsible for lack of proper correlation of the roengenological with the clinical findings greater the distance of the part examined from the him and from the midline the greater its distortion Slight variations of the central ray also produce changes in the relative position of different parts rendering accurate duplication of roentgenograms extremely difficult

In order to avoid the errors cited orthodiagraphy and teleroentgenography are employed. Orthodiag. raphy with the use of only the central ray by fluoroscopy permits accurate recording of hold out lines such as those of the heart hut does not make possible the demonstration of fine details. For the sists in increasing the distance between the film and the tube so that the errors due to divergence are reduced to the minimum The distance usually employed 18 2 meters a distance at which for all practical purposes the ravs may be considered parallel This method first suggested by Kohler originally had the disadvantage of requiring prolonged exposure but modern technique and appa ratus have entirely overcome this defect. The author describes the technique he uses in detail

ADOLPH HARTUNG MID

great importance in the production of suppuration in the lung

The abolition of the pharyngeal and cough

The abolition of the pharyngeal and cough reflexes in general anæsthesia

The presence of blood mucus or gastne con

tents in the mouth during anasthesia

The presence of fusospirochatz in the mouth
The presence of chronic infection in the mose

mouth or paranasal sinuses

5. The dim usions and physical state of aspirated material

6 The action of the cilia which clear the traches and bronchi

7 The specific immunity of the lung to certain organisms
PILL W GREEZEY M D

Manges W F Lung Abscess Following Tonsillec

tomy from the Standpoint of the Roentgenolo gist Atlantic M J 1928 xxv 900 The majority of the lung abscesses seen by the

author occurred in the loner lobe on the right side and seemed to be in more or less clo e relation to the root area.

Mances is of the oningon that absences at the line

Allanges is of the opinion that abscesses at the lung surface and orth resistant to a tea onably high broa chus are probably the result of surface lymphatic mission. Those in the interior of the lung and not in contact with the cheek wall or the root area may be also blood stream infection. Those of the root area child infections caused by infections material drawn into the bronch during operation.

The size of the area of involvement however does not indicate the extent of lung tissue destruction. The author has seen marked destruction of lung tisue in a small area of involvement and has known very large areas to clear up without permanent destruction of lung tissue. As a rule the larger the area of anvolvement the greatest the extent of destruction.

In the early stages of the disease the outlines of the bronchial tubes can be seen throw I the shadow of the equiate. There is I tile or no tendency toward sharp limitation of the lesson. As the exudate in creases the bronchial shadows gradually become more obscure. When the lesson is proof song the marginal shadows remain inforce or less indistinct.

If broncho copy is to be the method of treatment localization in relation to a lobe portion of a lobe of a bronchus is sufficient. This can usually be established fairly accurately by means of anteroposterior and lateral views or by seteroscopic films.

RALPH B BETTHAY M D

Rienhoff W F Jr and Davison W C Empyema in Infants under Two Years of Age 4rch 3/F

Since the World War the treatment of empyema has gradually become ruce conservative in that closed drainage has been used more frequently than open thoracotomy. The authors analyzed eights cases of empyema occurring in infants under two years of age who were admitted to the Johns Hop-years of age who were admitted to the Johns Hop-

kins Hospital. Of these eights cases they two were not operated upon. In twenty, the diagnosis was not made until autopsy. The fact that a count diagnosis was missed in 25 per cent of the cases his the following explanations.

1 Because of the small thest area it is difficult to distriguish the relationely small area of doll ex-

2 Because of the associated dan er thorages tests is not carried out as often as it should be 3 Roentgenograms are often of no assi tance is

the differential diagnosis of pueumonia and pleuri effusion

The authors advise the use of fluoroscopy nate

find is suspected especially in the rases of thicker. Of the forty eight infants who were operated up on them by rib resection or the insertion of a local reasonable relieves (30 6 per ceal) died. Of local reasonable relieves (30 6 per ceal) died. Of local reasonable relieves (30 6 per ceal) died. Of local reasonable were performed one recovered and set due to be perfectly eight hours after the diagnosis of errores. The relieves t

The forth eight cases in which open to student were student open cally to determine which repet a closed drainage is the better precedur. The mortality was highest among the indiant sident from left sided and double empress. Word the thirds of the cases of empress are caused by neumococco but in this group the mortality and one half that of the group in which the infectors and due to other organisms. In the cas with copy left closes the mortality was four time as high air cases without complications. Contrast cases are consistent of the case of the cas

The authors conclude from their stick that is cased emptyean in infants under two varied at the method of choice is open thoractiony. Complications are less apt to occur following gione disordinate productions are less apt to occur following gione disordinate following closed dramage. Open thoraction of the receivable is indicated expense of cases of cases of the control of the section of the control of the

ESOPHAGUS AND MEDIASTINUM

Abel A L Syphilis of the Esophagus Laci

A diagnosis of suphilis of the irrophagus is made in only 1 or 2 of ever 1 coo cases of one diagnal lesson Persons with exophagual syphilis acidom apply for treatment until disphagua occurs as the result of shamedor of organic stenosis In 47 per cent of his cases of mesenteriolitis the author found streptococci colon hacilli were of secondary importance

As a rule but not always the course of the mesen tenolitis conforms to that of the appendicutes. The injection of the mesenteriolum may progress and lead to thrombophlebitis manifested clinically by a chill When thrombonhlabitis occurs the patient's life can be saved only by high ligation of the ileocolic vein If hepatic ab cesses are already present even this intervention comes too late Rupture of a suppurative mesenteriolitis into the free peritoneal cavity is also preatly to be feared, the consequent peritonitis is much more serious than the diffuse peritoritis which follows the perforation of an ab scess of the appendix However most inflammatory infiltrations of the mesenteriolum enter upon a chronic stage with substitution by connective tissue. The mesenteriolum shrinks at the sites of juncture of the chief lymph vessels 1 e between the lower and middle third At these points stenosing kines occur which cause mechanical nervous and vascular disturbances The mechanical disturbances are most important as they are the causes of recurrence RIESS (2)

GASTRO INTESTINAL TRACT

Laurinsieh A Alimentary Fever (Sulle felbri alimentari) I oliclin Rome 1928 xxxv sez prat 1510

In roof. Finkelstim demonstrated that there is a dose relationship between diet and fever not only in acute febrile tijspepaa but also in infectious filed è axes. In 1911, he reported that the substances which cause such fever are sugar and salls contained in the food which bring about fever prolucing chemical reactions. A necessary condution for the development of the fever is a change in the state metabolism and the water content of the body bacterial towns. He believes that in febrile dispersion of the fever is caused by bacterial towns. He believes that in febrile dispersion that that the fever is caused by the case that the substance is the substance of the fever is the fever is the total of britteria, but that the fever is the result of the deficiency in water brought about by the dar

thera and vomiting There are three theories attributing the lever to special con litions of metabolism. The first is that in the presence of a certain deficiency of water products of protein eatabolism are formed that cause fever by acting like bacterial toxins | The sec ond is that alimentary fever is due to stagnation of heat from insufficiency in the supply of sodium chlori le resulting in decreased elimination of water the fever depen ing not upon the absolute amount of salt but on the corce tration of the solution According to the third theory that of Rietschel the fever is due to the increased production of heat from increased metabolism Laurinsich holds that the lever is due not to increased metabolism but to in tense diutesis which causes a great loss of water. He suggests that as sometimes a gl) cosuria is associated

with the increase in temperature the vegetative nervous system either alone or in association with a disturbance of the trophic center may play a part in the production of the alimentary fever ALDRIA GARKAN MD

Guther E H The Effects of Surgery of the Stomach on Its Subsequent Motor and Secretory Functions J Am M 1ss 1928 xc1 1075

This report is hased on sixty seven eases in which the following operations were performed gastro enterostomy thirty cases pyloroplasty twenty two cases closure of a perforated ulcer two cases resection three cases gastroducidenostomy two eases partial gastrectomy one case division of the anterior and posterior gastric branches of the vigus one cases pylorectomy one case Polya rescribin two cases cholecustication two cases and pylorectomy eastroducidenostomy one case and pylorectomy eastroducidenostomy one case

A rice meal was given and ten hours later the fasting stomach contents were obtained by means of These fasting contents were the Rebfuss tube studied with regard to quantity consistency char acter color free acid total acid mucus pus gross blood occult blood starch retention and miero scopic appearance. An Ewald meal was then given and fractional examinations were made until the stomach was empty Usually on the following day the stomach was examined roentgenologically after a harum meal. The size shape position tone and peristalsis of both the stomach and duodenum were especially noted. Cases which before operation showed evidence of hypertometry and hyper penstals of the stomach with a spastic pylorus and were relieved by the operation showed post operatively absence of the spasm hyperperistals is and hypertonicity. In cases in which no relief or only partial relief was obtained from the operation the spasm tetanic contraction and hypertonicity per sisted. The author believes that in the absence of organic obstruction these conditions are due to perigastritis peripyloritis and periduodenitis

Motor function is best studied by fluoroscopic examination because especially in cases with a gastro-enterostomy there is constant reguigitation into the stomach from the intestine which makes the Lwald meal unreliable

The cases in which gastro enterostoms was done showed a shorter emptying time than those in which pyloroplasts was done

In a not inconsiderable number of cases without symptoms both the Ewald meal and fluoroscopic studies showed delayed empty ing. This observation demon trates the importance of successive investingations alter operative intervention since information may be thereby obtained which will show the

possibility of future pathological function and lead to proper prophylactic measures. The acidity of the stomach is controlled by the

regurgitation of intestinal contents which contain not only intestinal but also pancreatic and biliary

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

David V C and Sparks J L The Puntoneum as Related to Lerifonitis tur Sure 2028 1xxxx m 672

This article deals with the absorption of toxins from the normal and inflamed perstoneum. Diph them town was used because of its known lethal properties in guinea pigs. It was found that when a known toxin was injected into the normal peri toneum of dogs it passed directly ioto the blood stream as well as into the lymphatics in sufficient quantities to be fatal to guines pigs The con centration of the toxin and chyle seemed to be greatest about thirty minutes after the intra The intrapentoneal injection peritoneal injection of 5 c cm of a 10 per cent turpentine emul ion on ts o successive days caused a severe peritonitis with marked fibrin deposits and a sero-angumous fluid exudate \ study of the passage of diphtheria toxin from such an inflamed peritoneum indicated that in the presence of a plastic exudate the passage of toxin from the peritonium into the chyle was nil and that if the toxin passed into the blood stream at all the quantity was much smaller than that entering the blood from the normal perstoneum

The presence of a transudate favors more rapid

absorption of the toxins

The authors conclude that in the treatment of peritoritis interference with the plastic exudate formed should be avoided as much as possible Their fimlings suggest also that in the early bours of peritonitis the chief danger is the absorption of toxins and bacteria into the circulation directly and by way of the lymphatics whereas later absorption from the perstoneum becomes less important and the chief danger is the development of a local con dition such as paralytic ileus MANCEL E LICRITENSTEIN M D

Romano N and Rey S Duodenal Drainage and Duodenal Feeding in Certain Cases of Incon trollable comiting in Perfonitis (11 sm laje de du dena y la alimentacion du denal en Igun s casos de vomitos incoercibles por per ton tis b cilo sal Res Soc de med inte ni y Soc det il to \$ 15 80

The authors report good results from the use of the Embora duodenal tube in cases of incontrollable yomiting

Two patients with chronic plastic peritonitis suf fered periods of complete gastric intolerance with marked emaciation and lo s of weight By means of intermittent duodenal feeding it was possible to re lieve the vomiting and a liminister medication The treatment was followed by a gain in we ght

WILLIAM R MEXAER M D

Steinberg B and Goldblatt II Peritonitis II The Production of Active Immunity Against the Fatal Outcome of Experimental Izeal Peritonitis Arch Int Med 1928 zha, 415

A group of eight dogs were immunized by the intraperationeal injection of a suspension of colon bacilli which had been taken from the lower in testine of another do, suspended in saline solution, and killed by beating to 58 degrees L for our bour Four such injections were given at intervals of i or Fourteen days after the last injection the immunity attempted was tested by the intrapen toneal injection of s gm of solid frees suspended in 15 cm of normal aline solution. Five of the eight dogs died

Another group of eleven dog were similarly in munized with fiving colon bacilli. When tested fifteen days later by the intraperitoneal injection of farces ten lived and one died of a serofibrinopurulint peritonitis Of two dogs that were killed later over showed a few adhesions and the other was found normal

Of a group of fifteen non immunized dogs injected with a clear suspension of facal material all del within twenty four hours of severe hamorrhame serou and fibrinopurulent peritoritis

Of three non immunized dogs which were given injections of frecal material that had been heated alf survived

The authors conclude from these experiments that in do s it is possible to prevent death from fiecal peritonitis by active immunization with to a bacelle and that killing by heat greatly dimine hes the antigenie power of the organisms PAUL W GREETEY M D

Appendicular Mesenteriolitis (Meen Fertz 11 tertal t s append cularis) Bet s Al n Carr tots c ln 564

From the standpoint of pathological anatomy the mesenteriotum is involved in every case of scute appendicitis but the symptoms of the mesen teriolitis are overshadowed by the other symptoms. In this article attention is called to the dangerous complications that may arise from the appendicular mesenteriolitis and the role of the mr enteriolim in the development of so called chronic appendi citis is discussed

Various phases of inflammation may be dis tingui hed the stage of collateral irritation that of acute mesenteriolitis and that of complications In each stage the process may be brought to a stand still by reparative processes but restoration to cormal is possible only in the beginning later healing occurs by scar formation and adhesions of by encap ulation of the abscesses

should be disregarded. As regards co operation he tween surgeon and radiologist he is in full accord ADDITED HARTENG M D with Paterson

Horsley J S Some Stornachs I Have Met Vir g nia M Mouth 19 8 lv 370

The author discusses the normal physiology of the stomach and cites several cases to show bow lesions in other organs such as the appendix or gall bladder may reflexly give rise to gastric contractions and hunger name The best method of diagnosing gas

tric lesions is \ ray examination In discussing the relation between chronic gastric

ulcers and cancer of the stomach Horsley states that from 10 to 20 per cent of lesions diagnosed clinically as chronic gastric ulcer will prove to be cancer In conclusion Horsley reports forty one cases in

which he operated on the stomach and duodenum in a period of fourteen months PAUL W GREELEY WD

Kalbfleish W K Diverticula of the Stomach Bernstein B M Diverticulum of the Stomach Am J Roentgenol 1928 XX 224

halbfleish and Bernstein each report one case of diverticulum of the atomach. In both instances the diagnosis rested entirely upon the roentgen ray ex amination and the diverticulum was an incidental In the case reported by Kalbseish the diverticulum was een most distinctly in the oblique view with the patient in the horizontal position. In the ease reported by Bernstein it was located on the lesser curvature just below the cardia the reports in the literature Bernstein concludes that most diverticula occur in this location whereas kalbileish reviews the anatomy of the atomach to arrive at the conclusion that the posterior wall near the cardia is the area of least resistance

Bernstein reminds us that a diverticulum of the stomach may produce symptoms similar to those of a penetrating ulcer and he believes that treatment should be advised accordingly Kalbfleish states that any decision as to treatment depends upon the 5) mptoms No definite rule can be laid down but it should be kept in mind that all diverticula are potentially litble to undergo cancerous change

CHARLES II HEACOCK MD

Mandl F Inadequacy of the Weber Ramstedt Operation in Pylorospasm (Insuffiz enz der Web r Ramsle lischen Operation beim Pyloro Pasmus) Zentralbl f Ch 19 8 Iv 662

Hundsdoerier places the mortality of the Weber Ramstedt operation at between 12 and 16 per cent Death may be due to operative shock unobserved muco al mjury hamorrhage from the operative wound and the giving way of the abdominal sutures Another danger hes in not doing enough as in Mandl's case of a four months old female child who had had attacks of vomiting ever since the second week of life At operation the pylorus from the

antrum to the pylonic vein was found to be five times thicker than normal. The mucosa was dissected free partly by dull partly by sharp dissec tion over an area of about 8 cm and a fold of omentum sutured over the defect The child vom ited immediately afterward and died one week later At autopsy the stomach was found markedly dr lated and by pertrophied The pylorus was so narrow that a medium sized sound could not be passed through it the lumen being obstructed by a pea sized nodule of mucosa

In 1927 at the Congress on Digestive Disturb ances held in Vienna Forsell stated that the mucosa plays a rôle in penstalsis and that the autoplastic mechanism of the mucosa acts in co ordination with

the movements of the muscularis

The danger of an madequate Weber Ramstedt operation may be avoided by testing the patency of the pylonic canal by invaginating the mucosa into it pressing out the gastric contents or introducing fluids into the stomach. If the pylorus is not patent dilatation by the method of Loretta pyloroplasty or gastro-enterostomy may be done

Gallagher W J The Effect of Injections of Hydro chloric Acid on the Gastric and Duodenal Mucosa Arch Surg 1928 zvn 613

The normal hydrochloric acid content of the gastric juice of dogs is o 5 per cent. In experiments on seven dogs with jejunal transplants to the stom ach the author injected hydrochloric acid once or twice daily in amounts of from 200 to 225 c cm of a o 22 o 29 or o 62 per cent solution In a control group of six dogs he injected a o 62 per cent solution in similar amounts two or three times daily

An acute ulter developed in two of the dogs and a chronic gastric ulcer in one. The most constant ob servations were acute and chronic gastritis with mul tiple erosions. These changes were greater when the

high concentrations of acid were used The author calls attention to the similarity of the

lesions to those found in the stomach and duodenum in man and the probable importance of hydrochloric acid in their production

ARTHUR L. SHREFFIER M D.

Moll II and Flint E R The Depressive Influence of the Sympathetic Nerves on Gastric Acidity Brit J Surg 1928 XVI 283

The purpose of this study was to determine the in fluence of the sympathetic nerves on gastric acidity Evidence in favor of the depressive influence of the splanchme nerves on the stomach is deduced from clinical observations (r) gastric analyses in cases of hyperthy roidism (z) the effect of thy roid feeding on gastric secretion (3) changes produced by adrenalin and nicotine and (4) the depressive action of the emotions on acid secretion Such an influence is indicated also by observations on the secretion of hydrochloric acid after bilateral section of the splanching nerves in the dog

secretions. The author was able to predict the degree of actinally with a fair degree of actinally from the color of the gastric contents the more selben the contents the less the arother. The and waster vary considerably in a single digestive phase. The changes are due to warations in the amounts of resurgitated intestinal contents. Cases were observed in which the and values ranged from those of achylin to those of hyperchlorhydras. In the majority of such cases there were no symptoms.

After gastro-enterostomy 58 per cent of the natients showed an acid value ranging from achylia to normal and so per cent showed hyperchlor hydria After pyloroplasts 10 per cent showed acid values ranging from achylia to normal while oo ner cent showed evidence of hyperchlothydra After Polya resection one patient had acid values ranging from achi lia to normal and the other had achi lia Four cases in which pylorectomy with resection was done showed achylia. In the two cases in which a perforated duodenal ulcer was closed byper chlorhydra was found In the case of cholecysto gastrostomy there was achylia. Of the two cases of gastroduodenostomy one showed hypochlorhy dria and the other achylia. In the case in which a gastro enterostomy was di conne t 1 hyperchlorhydna was found. In the case of division of the gastne branches of the vagus the findings ranged from pormal to hypochlorhydeta

In all examinations for occult blood during the course of the Ewald meal the reactions were positive. The author attributes this fanding to trauma it is emphasized that in the interpretation of acid

values great care is necessary as acidity varies con siderably even under normal conditions

Gattle believes that the reduction in gastine acadity following operations on the stomach is due either to the reguirgitated intestinal contents or to inhibition of the activity of the gastine glands Associated disturbances are caused more by motion function than by changes in secretion. The reduction than by changes in secretion. The reduction than by changes in secretion. The reduction that the secretion is the secretion of the gastine acidity two or three weeks after one ration than later. Acros Octaves MID.

Cole L G The Status of Roentgenology in Gastro Enterology Surg Clin \ 1st 19 8 11 1007

Scority cology is a valuable adjust in gastroinstrainal daagnoss but there is still controversa among inentger-ologasts at to whether it should be used for an uptrope beaded daagnoss. Formerly it was taught that in exporting his findings the roritgenoopst should not attempt to interpret then in terms of pathology. Cole believes however that the findings of X-ray examination aboud he mater prieted by the roritiged of the prognosis and the type of tentimetry of the prognosis and the type of the prognosis and understoops the responsibility of deciding the more serious problems of prognosis and understants for treatment Wher treatment roentgenographic examinations should be made to determine whether or not the measures used have succeeded in eliminating the pathological process. A single N ray examination may easily lead to a faulty conclusion. This is jet to be true especially as regards the indications for treatment.

After the roentgenologist is thoroughly trained in theory and practice his skill will be greatly increased by observation of his errors at the opening of autopay fable. He should make a careful state of pathological specimens and compare the change lound with the Vray findings upon which by diagnosis was based. Crail J Gassey, VII.

Paterson H J and Hernaman Johnson f The Fallacy of V Rays in Abdominal Dut nosis best M J 1928 U 50, 595

Paramsov holds that too great fallaces raths connection with trause op a specially in abtumed work (i) that radiology can be a substitute fraction and through chimal cannatum; a 'so that radiology can be a properties of the transparence that the radio ag is true through the transparence that the radio ag is true through one the regarded as instillable as it may are because for industrial or formation of the same of

r If the roentgenographic firdings do not upport the chinical signs and symptoms the firmer

should be de regarded
2 Close to operation between the surgeon and

roentgenologist is desirable HERNAHAN JOHNSON although ag eeing with some of the general statements made by Paterson refutes many of the pecific arguments are ented in support of those statements Admitt og that failure t) find au organic lesion by the roentgen ex mination does not exclude the existence of such a les on be maintains that such evidence should receive proper consideration and should be carefully neighed against the christal evidence. The impo tance of proper technique is self evident although practical considerations at times impose definite i mits fith regard to errors resulting from misdirection be states that such fallacres can usually he ascribed to undue limitation of the scope of examination per mitted the roentgenologist Errors in interpretation will always occur just as in other methods of diag nous Here competence and exper ence play a major rale and the necessity for the pos ession of medical knowledge by the roentgenologist to draw proper conclusions is brought into evidence I'a erson statement that there is no such thing as a purely roentgenological diagnosis he characterized as a plat with word Roentgen findings cannot be evaluated outside the scope of medical knowledge

Finally Hernaman Johnson takes issue with Parcerson's dictum that if the roenigen findings do not support the chinical signs and symptoms they should be disregarded \s regards co operation be tween surgeon and radiologist he is in full accord with Laterson Adolphi Harrong M D

Horsley J S Some Stomachs I Have Met 1 ir

The author discusses the normal physiology of the stomach and cites several cases to show how lesions in other organs such as the appendix or gall bladder may reflexly give use to gastric contractions and hunger pains. The best method of diagnosing gas

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In conclusion Horsley reports forty one cases in which he operated on the stomach and duodenum in a period of fourteen months

PAUL W GREELLY MD

Kalbfielsh W. L. Diverticula of the Stomach
Am J Roemisenol 1923 xt 218
Bernstein B M. Diverticulum of the Stomach
Am J Reemisenol 1928 xt 224

halldeuh and Bernatun each report one case of unverticulum of the stonach I nobe instances the disgnoss rotted entirely upon the roenigen ray examination and the diverticulum was an incidental fiding. In the case reported by halldeuh diverticulum was seen most distinctly in the oblique view with the patient in the horizontal position. In the case reported by Bernatin it was located on the lesser curvature just below the cardia. From the reports in the literature Bernatien concludes that most diverticula occur in this focition whereas Mills in the rewas the anatomy of the stomach to strine as the conclusion that the posterior wall near the early as the areas of less it resistance.

Benstein reminds us that a diverticulum of the storach may produce as mytomas mindre to the of \$Pc citating ulcer and the believes that treatment aboud he advised accordingly. Ashibiesh states that any de stron as to treatment depends upon the simptoms. No definite rule can be laid down but it should be kept in mind that all diverticula are preferably into to undergo cancerous change.

CHIRLES H HEACOCK M D

Mandl F Inadequacy of the Weber Ramstedt
Operation in Pylorospasm (Insufficient der

Service of the contract of the

Another danger lies in not doing enough as in Mandi's case of a four months-old female child who had had attacks of vomiting ever since the second week of life. At operation the pylorus from the

antrium to the pylone vein w.s. found to be five times thicker than normal. The mucoss was dissected free partly by dull partly by sharp dissection over an area of about 8 cm. and a fold of omentum sutured over the defect. The child vomted immediately afterward and died one week later. At autopsy the stomach was found markedly dulated and hypertrophed. The could not be passed through it the lumen being obstructed by a peaswed nother of mucoss.

In 1927 at the Congress on Digestive Disturb ances held in Vienna Forsell stated that the mucosa plays a rôle in peristalis and that the autoplastic mechanism of the mucosa acts in co-ordination with

the movements of the muscularis

The damper of an inadequate Weber Ramsted of operation may be avoided by testing the patiency of the whore canal by invaginating the nucessay into a pressing out the gastine contents or intro ducing fluids into the stomach. If the polarius is not patent dislatation by the method of Loretta pyloroplasty or gastro-enterostomy may be done.

MASTIC 20.

Gallagher W. J. The Effect of Injections of Hydrochtoric Acid on the Gastric and Duodenal Mucosa treh Surg. 1928 XVII 613

The normal hydrochloric and content of the gastine juice of dogs is 0 a per cent. In experiments on seven dogs with jejunal transplants to the stom each the author imjected hydrochloric acid once or twice daily in amounts of from 200 to 225 ccm of a 020 020 or 065 per cent solution. In a control group of six dogs he injected a 0 60 per cent solution in similar amounts two or three times daily in similar amounts two or three times daily.

An acute ulcer developed in two of the dogs and a chronic gastife ulcer in one. The most constant observations were acute and chronic gastritis with multiple ecosions. These changes were greater when the

high concentrations of acid were used

The author calls attention to the similarity of the lessons to those found in the stomach and duodenum in man and the probable importance of hydrochloric acid in their production

ARTHUR I SHREFFLER VI D

Moli II and Flint E R The Depressive Influence of the Sympathetic Nerves on Gastric Acidity B it J Sirg 1928 Xvi 283

B if J S vir 1938 2x1 283.

The purpose of this study was to determine the in fluence of the sympathetic nerves on gastric acidity. Evidence in flavor of the depressive influence of the splanchinic nerves on the stomach is deduced from climical observations. (1) gastric analyses in cases of bypetthyroidsin (2) the effect of thiroid feeding on sattle secretion (3) change produced by adrenaling and moctine and (4) the dispussive action of the acid also by observations. Such as influence is indicated also by observations for secretion of the splanchinic pervex in the dog.

CLINICAL OBSERVATIONS

Gusiric secretion in Cra es disease Lockwood Barker Ling Wolpe and Leist all report a definite tendency toward an acidity in Graves disease Acid son Boenheim Maranon and Sajous report hyper

chlorhydna

A study of fifty cases of hyperthyroidism was un dertaken by Moll to obtain more detailed informa The results of gastric analysis showed that there is a constant tendency toward hypochlorhydria in Graves disease the achlorhydna is more frequent in long standing cases than in the acute cases the secretion of hydrochloric acid in cases of toric ade noma and puberty by perplasia is usually normal or subnormal but never absent. The fact that the ach lorhy dria is most pronounced in the chronic cases in dicates that it may be due to persistent stimulation of the sympathetic system by the thyroid toxemia

The effect of thy road feeding on gastrue acidity Rogers and Roenheim reported that thy road feeding of any mals increased the gastric secretion whereas Trues dale and Hardt reported that it had a definite ten dency to depress the acidity and secretory rate

The nuthors repeated the experiments believing that the previous investigations were not continued over a sufficient period of time. Of the four dogs used two showed almost complete achlorhy dna one only a very slight lowering of the free hydrochloric acid curve and one a slight rise in the acidity

The only conclusion that can be drawn from these results is that the effects of thy road administration vary this fact explaining previous contradictory re sults

Changes produced by adrenalin and meetine cording to Langley adrenalin and certain related substances produce effects simifar to those caused by stimulation of the sympathetic nerves although there are exceptions as in the case of the sweat plands in which sympathetic stimulation has a marked effect and adrenabn has none. The mass of evidence indicates that adrenates inhibits both the motor and the secretory functions of the stomach

In two cases of hy perchlorhydria in man in which the effect of adrenalm was studied by Molf the injection was followed by a marked decrease in the amount of

free hydrochlone acid

The effect of nicotine on gastric acidity was ob served by Moll in a series of cases of postencephalitic parkinsonism in which the drug was given in the pure alkaloid form in an attempt to reduce plastic tone A definite tendency toward hyperchlorhydria was

noted

These experiments indicate that adrenalin lowers gastric acidity by stimulating the sympathetic nerves whereas meetine raises the acidity by paralyzing

those nerves

The depressive action of emotions on gastric acidits There is definite evidence that gastric motility is in bibited by psychic disturbances (Cannon) In ex periments on dogs Murphy and Cannon found that gastric motility was inhibited by trauma of the tes ticles when the splanchnic nerves were mitact but not

after section of the splanchnic perves. Re piraton distress inhibited gistric motility only when the sympathetic and vagus nerves were intact.

Although the experimental effect of unpleasant emotions on gastric secretion has not been studied extensively the evidence on hand leaves little doubt that such emotions cause an inhibition of secretic as well as of motility According to Brown the action of the sympathetie is more clearly seen in the inhibit tion of the salivary secretion than of gastric or piecreatic secretion Bennet and Venables studied the effect of emotions on eastric acidity in a hypothesis subject. The suggestion of nausea caused delayed emptying and inhibition of secretion while the ag gestion of hunger caused rapid emptying and a nem the acidity Great anxiety caused strong inhibition with delayed emptying

EXPERIMENTAL OBSERVATIONS

The effects of the sympathetic nervous supply of the stomach on hydrochloric and secretion have not been investigated to any great extent. In expen ments on dogs en which he excised the posterior and anterior nerve roots between the fourth and exhibit between the fifth and ninth dorsal segments behup fer found a constant increase of acidity attributable to a combined increase of hydrochloric and sad to less extent of free hy drochloric acid Caulter found that stimulation of the splanchnic or solar plurus had no effect on gastric acidity whereas section of the splanchmes and avulsion of the solar plexus gave no to a constant and pronounced hyperchloris dna.

The purpose of the experimental work reported in this article was to ascertain the effects of bilateral section of the splanchuics on the secretion of free hy drochloric scid Fractional gastric analyses by means of a Janeway fistula were carried out on lines similar to those of an ordinary standard test meal. The Me tion of the splanchnic was verified by postmorten examination and histological examination of the ex exsed piece of nerve. The operative technique and the results are presented in tabular form.

It was found that continuous acid secretion is in creased after bilateral splanchnic division. This is evident from the greater frequency with which free bydrochloric acid is found in the fasting juice the higher values attained and the comparative absence of bile Moreover after the sympathetic denerva tion there is more rapid secretion of acid following the test meal the acid curve rising in the second hour in 74 per cent as opposed to 34 per cent before the sympathetic denervation Duodenal regurgitation is not appreciably influenced although it is slightly more frequent after division of the nerves

The interpretation of the results of these expen ments as subject to certain reservations and criti-

cisms I It is probable that division of the splanchnics does not insure complete sympathetic d nervation of the stomach as fibers may reach the stomach through the outer coats of blood vessels. The penpheral in triesic sympathetic nervous system may compensate for the loss of control due to central denervation the stomach being comparable to the heart as an auto matic organ though influenced by the intrinsic nerves It is probable also that the vagi contain fibers inhibiting gastric secretion and thus overhal ancing the effects of division of the splanchmes These conjectures may explain the inconsistencies in the results and the fact that the hyperchlorhy dria is only relative

2 Fractional gastric analyses after a test meal do not afford rehable information with regard to the gastric secretion. The introduction of food obscures the volume of the response while the true acidity is masked by the neutralizing and diluting power of the food mass evacuation into the duodenum re

gurgitation and retention

3 Observations under the same conditions vary on different occasions rendering comparisons difficult However while the method of gastric analysis used by the author is less accurate than others it is identical with the method used in clinical diagnostic procedures and its results can be compared more easily with those obtained from clinical observations in man

In spite of these criticisms the authors believe the evidence is sufficient to show that the sympa thetic contains inhibitory secretory fibers to the stomach the excision of which has a definite action in raising the secretion of hydrochloric acid both in the lasting juice and in the gastric secretion after a standard test meal They state that certain con clusions of clinical importance may be drawn from the observations with regard to hyperchlorhydria or achylia associated with extragastric diseases though a large number of these cases may be ex plained by asthema of the gastric glands in debilitat ing conditions or by permanent damage from bae tenal tours others may be caused by persistent inhibitory reflexes (hyperthyroidism gall bladder disease) Hyperchlorhydria may be explained by neuritis of the solar plexus caused by focal infections or by a diminished tone of central inhibitory sympathetic centers as in hyperchlorhydrie dys pepsia due to overwork worry and the ordinary stress of life E S PLATE M D

Hosomi L The So Called Peptic Ulcer of the Stomach and Duodenum in the Dog Which Sometimes Follows Choledochoplasty (Ueber das soge annie pepti che Geschwier des Magens un i Duodenums beim Hunde das gelegentlich der Ch ledochu plastik entsteht) 4 & f path inol 1928 celavn 726

In fifteen experiments on dogs in which free trans plants of arteries were used in plastic operations on the common duct erosions of the mucous membrane and submucous ha morrhages were found in the store ach and duo lenum of seven of the animals. In one case an ulcer was formed in the duodenum while the stomach remained uninvolved. In four instances there were ulcers in the wall of the duodenum and

erosions and hamorrhages were lound in the gastric mucosa

The dogs were kept alive for at least eight) days after the operation As the result of biliary stasis marked acterus usually developed between the fifth and seventh days after the operation In two of seven dogs the lumen of the duct was found at necropsy to be entirely closed. In three others it was navrowed and the passage of the bile was ob structed by adhesions about the transplant every case the pylonic part of the stomach and duodenum was embedded in firm adhesions ulcers had the appearance of typical round peptic

According to the findings of Iwasaki it cannot be assumed that the ulcers are due entirely to the obstruction of the flow of bile. Hosomi believes that the firstion of the duodenum and mesentery by adhesions and the circulatory disturbances in the henatoduodenal ligament are among the most im portant factors The primary cause of the Icsion he sees in the nerve and blood vessel crosions which when secondarily injected lead to the formation of the adhesions that cause circulatory and nervous disturbances which predispose to ulcer formation He therefore holds that peptic ulcer is a local con

dition and not merely a part of a general disease The operation and the necropsy findings in the cases of seven dogs are reported in detail

BERGEMANS (Z)

Gibson C L Acute Perlorotions of the Stomach and Duodenum J Am 31 1ss 1928 tci 1936

Gibson reviews a series of 121 acute perforations ol the stomach and duodenum treated in the First Surgical Division of the New York Hospital (Cor. nell Division) during the past fifteen years

The typical cases of acute perforation are usually easy to recognize but there are many borderline conditions which give rise to confusion and the time spent for observation too often greatly reonardizes the patient's chance for recovery. The severe prostrating onset of abdominal pain with the board like rigidity of the upper abdomen is apt to lead to the diagnosis of peritonitis It should be remembered that as the contents of the stomach and duodenum are not very septic the peritonitis develops at a later stage The leakage of air and its presence in the free abdominal cavity like the classical sign of obliteration of liver dullness are not constant and should not delay operation. Most patients give a history ol gastrie disturbance

The condition is relatively rare in women When the perioration is more than twenty four hours old the diagnosis must often be that of appendication and progressive peritonitis. When the diagnosis is uncertain a fluoroscopic examination will often reveal a layer of air just under the diaphragm usu ally on the right sufe

Before operation the patient should be given a little methylene blue by mouth as this will aid recognition of the perforation. The peritoneum

should be opened in a pulidle of water so that the presence of gas may be detected. As most perfora tions are juxtapylone the pylone region should be examined first Closure is best effected by two layers of chromicized catgut sutures The free fluid may be conveniently removed with the sucker Drainage is generally useless except in late cases The suture line may be covered with omentum round ligament or fat II stenosis of the palorus exists it is use to add gastro enterostomy to the primary operation

Many patients who recover from a perforation are cured of their ulcer This observation has restrained the author from doing gastro enterostoms, as a routine procedure

In the 133 cases reviewed there were 23 deaths following the operation a mortality of 186 per cent Of 72 cases not requiring a second operation the result was excellent in 41 satisfactors in 31 un satisfactory in 1 Two patients could not be traced Of 21 cases in which a second operation was necessary gastto-enterostoms was done in 17 suturing of a econd perforation in 2 and gastric resection in a Of the 17 patients subjected to secondars gastro enterostomy 5 had an excellent result and 10 a satisfactory result I died of pulmonary tubercu losis one year after the second operation and a was operated upon too recently to warrant a report of the outcome. Of the a patients with a second per foration requiring auture I had a satisfactors result and I died from the results of psychosis Of the a patients subjected to secondary gastrectomy I had a good result and I died. The mortality ac cording to the duration of the perforation was 12 per cent after twelve hours 22 per cent after twenty four hours and 60 per cent after more than form W NAME M D twenty four hours

Loueia II W The Surgical Treatment of Gastric and Duodenat Ulcer Sig G : 2061 19 5 tlv11 403

The author reviews von Haberer's nork on gastric and duodenal ulcer in his clinic at Craz Yustria Before operation a fluoroscopic examination after a barium meal is always carried out unless it is contra in licated and after operation another > rat examination is made before the patient 1 discharged in order that the functioning of the anastomous and the siz of the stomach may be determined. The operation is done under local and splanchnic an asthesia induced with a 0 15 per cent solution of tutorain to which a small quantity of adrenalin has bren added Lefore April 1925 ether was u ed

The preferred method is the Billroth I procedure This is always used when there is sufficient serosa on the posterior wall of the first poetion of the duode num to insure safe apposition of the serous surfaces for anastomosis. However the upper part of the cut end of the stomach s rot closed as was origin ally done by Billroth As a rule from one half to two thirds of the stomach is remo ed. Two Livers of sutures are used for the anastomoses a continuous

catgut lock statch for the mucosa and interrupted sutures of sall, for the seroes

The second method of choice is son Raberers modification of the Billioth I operation Than used when the amount of serosa on the postenor duodenal wall to insufficient. The duodenal stone is closed and the cut end of the stomach implanted an the side of the second part of the duodenum below the level of the papilla of Vater This as well as the Billroth I operation seems to favor more nearly physiological action and the development of new phinciene control

The Billroth II operation is done when the two other operations are not adapt if to the requirements of the case The antecolic method seems to be pre-

ferred to the retrocolic method The mortality of the first method of choice is 6 per cent that of the second and third mrthods to per cent and that of the Billroth II retrotole

operation 18 per cent The Billroth I method is regarded as the not satisfactors and least apt to be followed by recurrence or the formation of a iriunal ther the the patients subjected to this operation of per test have been rendered free from symptoms or back been greatly benefited PAUL W CARRLEY 31 D

Wright G The Surgical Treatment of Castric Ulcer with Special Reference to the Vassi e Ulcers Bril J Surg 1918 ant 153

Surgical treatment of gattric ulcer becomes sectisars when medical treatment has failed to heal the ulcer permanently when permanent healing is in likely because of the size of the lesion when deformities of the stomach have been produced and when acute croses such as homorrhage and not

foration occur After a severe hamorrhage surgical inter ertuin is imperative when the patient's condition has 7 proved sufficiently and should include the removal of the ul er Gastro-enterostomy is not suffic ert to present recurrence of the bamouthage Mary patients with chronic gastric ulcer die because of hemorrhage In 249 cases of hamatemess from chronic ulcer reviewed by Bulmer the mortality 1 as 11 6 per cent and was higher among men than among women In several of the fatal cases gastro enterostomy had been performed previously

Old ulcers result in deformities of the stimach with increasing obstruction underputrition and death from pain and starvation. In one cases

death is hastened by tuberculosis

The author believes that the claims made con cerning the large numbers of ulcers which develop into carcinomata are unfounded and holds that the transformation of a gastric ulcer into a carry oma is a rare event The Mayo Clime Movemban and Sherren estimate that about 70 per cent of gastric ulcers become carcinomatous basing their corclus ions on MacCarty's report on ulcers ierios d'at operation in which associated carcinoma was found sa 63 per cent Wilson and MacCarty discovered evidence of previous gastric ulcer in 7r per cent or gastric carcinomata and Smithies found a clinical history of prev ous ulceration in 60 per cent of cases

of eastric carcinoma

If the incidence of malignancy is as high as these reports indicate the results of the treatment of gastric ulcer by ga tro enterestomy ought to be annalling yet the Mayo Clinic statistics (Balfour) show that only about 6 per cent of patr ats so treated developed carcinoma and of this 6 per cent the majority died within two years indicating that they were probably carcinomatous at the time of opera tion. Other statistics show a similar low incidence of carcinomatous changes

Surgical methods for the treatment of chronic gastric ulcer may be classified into the indirect and the direct. Two factors which are recognized as having an important influence on the development or persistence of gastric ulcers are (1) the acid character of the gastric juice and (2) conditions interfering with emptying of the stomach. All surgi cal procedures except simple excision of the ulcer are designed to modify these factors and therefore to modify the physiology of the stomach

The indirect methods of operative treatment are

gastro enterostomy pyloroplasty and rejunostomy Gastro-enterostomy acts mechanically by provid ing an efficient outlet from the stomach Paterson and others believe that it has a physiological action also allowing the regurgitation of bile and pan creatic juices into the stomach and thereby de creasing the acidity of the gastric contents effect however s most marked in cases of duodenal ther and many observers have not noted the low ering of acidity reported by laterson mentally even diversion of the entire duodenal contents into the stomach produced only a slight lowering of acidity as did also the diversion of the bile into the stomach by cholecystogastrostomy (Weidman and Enderlen) Perman found no di minution of gastric juice in the early days tollowing kastro enterostomy or following gastric resection unless the resection was extensive. It is therefore improbable that gastro-enterostom; has any effect on the gastric secretions. Movinhan also expresses this opinion

Sacren and others hold that the stoma in gastro enterestomy should be proximal to the ulcer which means it must be toward the cardiac end since mo t ulcers are well away from the pylorus Hartman ba shown that when the pylorus is patent most of the gastric content passes through the pylorus when the stoma is placed so near the cardiac end. The author therefore concludes that the outlet should be at the lowest point of the greater curvature regardless of the site of the ulcer

Gastroduodenostomy delivers the gastric contents into the duodenum but otherwise acts in the same way as gastro-enterostomy

I cloroplasty gives similar results

Jejuno tomy makes it possible to feed the patient while the stomach is supposedly at rest but as the

mere introduction of food into the jejunum excites gastric secretion the results of this operation have been disappointing

All of the indirect methods fail in some cases since the ulcer is replaced by scar tissue itself subject to breaking down on slight provocation most surgeons believe that a cure is obtained more

frequently by resection

Of the direct methods of operative treatment wedge resection is the simplest method of removing the ulcer but is often followed by recurrence of the lesion Direct excision of the ulcer is now usually combined with gastro enterestomy. Pyloric spasm believed to be due to the nerve reflex caused by high tion of the branches of the vagu on the lesser curva ture is thus avoided. Therefore increased intra gastric tension is prevented the reflux of duodenal contents is made possible and the incidence of recurrence is decreased

The use of the cautery in the method devised by Balfour for difficult operations on high ulcers is associated with the danger of secondary homor shage at the site of the cauterized ulcer. The author has found that ulcers situated near the orsonhageal opening can be excised if the lesser curvature is completely mobilized. In his technique, the coronary arters is divided in the left pancreaticogastric fold and the distal end together with the lesser omentum is then atripped down along the lesser curvature to the site of the ulcer

Sleeve resection is held to be the illeal resection method as it prevents the kinking at the pylorus that occurs following wedge re cetion. To preserve the normal shape of the stomach the resected piece should be made longer on the greater curvature than on the lesser curvature. Castro enterostomy be comes difficult or impossible when this procedure is used but pyloroplasty is an efficient substitute for 1t

When there is longitudinal contraction of the leser curvature such as occurs frequently in cases of gastric ulcer the stomach becomes globular and retention results from kinking at the pilorus. This deformity requires subtotal gastrectomy The advantages claimed for gastrectomy in the

treatment of gastric ulcer are that it abolishes gastric function and retention prevents recurrence and decreases the production of hydrochloric acid

Uright believes the postoperative freedom from securrence justifies resection even when the ulcer is small He states that the risk of the operation has been exaggerated as proved by Mounthan's series of 184 ca es with only 2 deaths Wright has been un able to substantiate Hurst's claims concerning the postoperative development of pernicious anamia due to the absence of acid in the gastric juice. The resections advocated are the Billroth I and II opera tions or modifications of these

Wright has obtained rapid and permanent cures from partial gastrectoms which is much better borne by patients with ulcer than by those with carcinoma

In cases of massave ulcer at is impossible to operate without soiling the peritoneum to some extent and there is a special risk in attempting to keep the floor of the ulcer totact by taking slices of the pancreas wheo adhesions are present. Thorough lavage of the stomach for several days is therefore important except when contra indicated by recent harmor rhage

When it is necessary to leave the floor of the ulcer because of adhesions, the peritoneum should be carefully packed off and the floor of the ulcer gently curetted and touched with pure carbolic acid a procedure which prevents the formation of a

pancreatic fistula

In a series of 62 cases in which the author per formed partial gastrectomy for chronic gastne ulcer there were 2 deaths This series does not include 3 operations with deaths which were performed for the arrest of acute hamorrhage since these were emergency measures Of the 44 survivors who could be traced 4 bave died since the operation from meningitis phthisis carcinoma and insanity re The death from carcinoma occurred spectively about one year after the operation which is taken to mean an incorrect diagnosis at operation al though the diagnosis of ulcer was confirmed microscopically

One patient developed regurgitant vomiting requiring entero anastomosis which was probably due to the use of an excessively long renunal loop. This patient though greatly relieved still has occasional nain. In another case someting occurs about once a fortnight and on \ ray examination food can be seen passing into the duodenal end of the howel. The patient is in good health otherwise and is able to eat any kind of food. In a other cases there is occasional slight vomiting The remaining 36 patients are in excellent health

The only unsatisfactory results were due to a technical defect in the anastomosis which allows

food to mass into the blind end of the bowel where it accumulates until relief is afforded by comiting Such a complication can be avoided by making the section well toward the cardine end and using as short a loop of jejunum as possible without compress

ing the transver e colon

Unight believes that considering the extent of the le ions and the pain and suffering in most of his cases the operation was fully justified by the re E S PLATT VI D sults

Black K The Large Storna Gastrojejunostnmy Brit M J 1928 II 440

Io cases of gastric ulcer the author places the stomach at rest by means of a gastrojejunostomy stoma from 31' to 4 in in diameter This mereuses

the rapidity of emptying

In the technique of the large stoma gastrojejunost omy the stomach and I junum are held by short bladed stomach forceps only at the ends the bleeding vessels are ligated individually and the tissues are GEORGE & COLLETT M D not crushed

Truesdale P E Pylorectomy I in al in 1918 TO ICOI

Truesdale briefly outlines the history of stan ch surgery The first pylorectomy was done by Plan in 1879 and was not successful. As early as 1881 the operation was adopted by Billroth Billroth recogmized the great muscular hypertrophy as ociated with cancer of the pylorus and believed that py loric obstruction from this cause was responsible for one half of the deaths occurring before adhese a and glandular metastases became factors of in portance Billroth's operations were characterized by smal city and are well known today a the Billroth I and Billroth II methods In 1003 Kocher reported 75 pulorectomies with a mortality of 01 per cent. His method was pylorectoms followed by gastroje junostomy a procedure in which the much dreaded suture angle of the Billroth operation and avoided In 1905 W J Mayo reported 100 polone tomies for cancer of the stomach g by the Bil roll I operation 75 by the Billroth II operation and 15 by the Kocher operation Of the many valuable contributions made to surgical knowledge by the Mayos and Balfour none ranks higher than the work of these surgeons on carcinoma of the atomich In 1006 Rodman was the first American surgeon to adopt pylorectoms in the treatment of gastne

ulcer in the pyloric region Truesdale began his first series of priorectomics in 1908 In 1913 he was able to report 8 cases in which the Billroth II method was used. All of the patients were still living and well. In this article be reviews a series of 40 pylorectomies with an operative mortality of 5 per cent Thirty of the patients were males. Two were between twenty seven and thirty years of age 10 between thirty a forty years 16 between forty and fifty years 6 between fifty and sixty years and 5 between buty

and seventy vears One was seventy eight vear old Thirts putients were operated upon by the Bultroth II procedure 6 by the method of gastroduodenostomy and 4 b) the Polya oper tion There were operative deaths I after the Poh operation and a following a gastroduodenos omy Autopsy in the cases of operative death revealed a rupture of the duod nal stump in one in tance and acute dilatation of the stomach in the other Ten patients have died since they left the hospital Of the 30 patients non living only 1 cannot be traced Twenty eight of these patients expressed them selves as entirely satisfied with the operative result

and their general health

The author concludes that polorectomy is the operation of choice for vers early cancer near the pylorus and for ulcer in the pars pylorica Gastio duodenostoms when carefulls applied is a safe time awing procedure. After gastroduodeno tomy the stomach tube should be employed repeatedly on the slightest evidence of acute dilatation of th stomach In general the Biliroth II operation 1 3 safer and more satisfactory operation

JOHN W NEEDS MD

Tenney C F Bancroft F W and Cote L G Gastric Ulcer Pytorectomy Pótya Anasto mosts Sure Clin N Am 1028 vin oSo

The authors report the case of a woman sixty six years of age whose principal complaint was frequent attacks of indigestion After thorough examination including laboratory and X ray assistance a diagno sis of chronic cholecy stitis with adhesions around the pylorus was made and cholecystectomy was per formed. The pathological diagnosis was chronic The pathological diagnosis was chronie cholecystitis. The patient made an uneventful recov

ery and was discharged as cured

One year later she returned complaining of gastrie distress. The findings of examination were much the same as before except that the secondary anamia was more pronounced blood was present in the gastric contents and stools and the gastric by dro chloric acid was low \ ray examination again showed a deformity of the nylorus but the condition was considered non malignant by the roentgenolo

At a second operation performed under ethylene anzisthesia after careful preparation with digitalis and blood transfusions a gastric ulcer was found and resection of the pylonic end of the stomach according to the method of Moynihan was done. Moynihan's method begins the resection at the duodenum and proceeds toward the left the anastomosis with the jejunum being started before the pylonic antrum bas been excised This method has the advantage that the beginning of the anastomosis is done in a clean field before the stomach is opened and the clamp remains on the proximal end of the stomach only a short time constriction of the circulation of the stomach in the region of the anastomosis being there fore avoided It is important to bring the anastomosis through the mesocolon so that no complicating obstruction may occur The patient had an un eventful convalescence with prompt disappearance of all symptoms

The \ray findings at both examinations were characteristic of either carcinoma or gastric ulcer They were nearly identical although a year had elapsed between the examinations The failure of the deformity to increase prevented a positive diagnosis

of malignancy

The specimen showed two ulcers one involving all of the coats of the stomach Between the two ulcers there was a bridge of hypertrophied mucosa which could be differentiated from carcinoma only by microscopic examination. This mucosa contained connective tissue which had contracted drawing the mucosa of the greater curvature into the lumen of the stomach. The smaller ulcer was submucosal and had developed ince the original examination

CYRIL J CLASPEL M D Morley J and Roberts W M The Technique

and Results of Partial Gastrectomy of Chronic Gastrie Ulcer Brit J Surg 1928 xv1 239 The interest of surgeons has been centered chiefly on the technique and immediate mortality of gas

trectomy too little attention being paid to the remote effects of the operation on the general health Ex travagant statements as to the frequency with which ulcers become malignant led to extensive resections for chrome ulcers The fact that the Polya gastrec tomy is followed by a smooth convalescence a gain in weight and immediate relief of pain caused it to be the operation of choice The sacrifice of gastric digestion was not thought to be a serious incon venience

However although the Polya gastrectomy re lieves the pain and vomiting it is followed in some instances by a marked tendency toward anemia especially in patients who are anamic at the time of the operation because of repeated pre operative

hæmatemesis

Several cases of anamia following gastrectoms some with the typical blood picture of pernicious anamia have been reported. Hurst believes that achlorbydria is not only a concomitant but also an essential predisposing cause of pernicious anamia Following the I olya gastrectomy the achlorhydria is usually complete

The hamolysis of pernicious anamia is believed to be due to bacterial toxins produced in the intestinal tract under the conditions favorable to bacterial growth which are present with achlorhydria. Knott found that in 90 per cent of cases with a normal quantity of free hydrochloric acid in the castric juice the duodenal contents were sterile whereas in cases of achlorhydna they contained many organ isms which had a tendency to be facal in type

Mis agawa found that the pyloric glands contain ing few exyntic cells extend three tenths of the distance from the pylorus to the cardia. After a transitional area 2 cm wide there is a large area of fundus glands rich in oxyntic cells. The oxyntic cells are located chiefly in the body and central region of the stomach and are scanty in the fundus

proper and the pyloric regions

Morley believes that the Schoemaker modifica tion of the Billroth I operation is a more physiologic cal form of partial gastrectomy than the 1 6lva gastrectomy The operative technique is described ın detail

In forty seven cases in which Morley performed a Pótva gastrectomy for gastric ulcer there were three deaths a mortality of 64 per cent. In five cases in which a Pólva gastrectomy was done for gastrojejunal ulcer there were no deaths In sixty eight cases in which a Schoemaker operation was done for gastric ulcer there were two deaths a mortality of 2 o per cent

Of the deaths following the Polya gastrectomy two were due to leakage of the invaginated end of the duodenum and one was due to postoperative bron chopneumonia Of the two deaths following the Schoemaker gastrectomy one was due to pneu monia and the other that of a man of poor physique occurred a few hours after the operation from pul monary cedema In neither ca e did autopsy reveal any sign of leakage

Roentgenographic examination following a Pólia operation shows the barium meal dropping through into the jejunum with practically no retention in the stomach

After the Schoemaker gastrectomy the barum passes through the stomach much more slowly than after the Pólya operation The picture closely resembles the normal In some cases there is even a

normal duodenal cap

In the investigation of clinical results following gastrectomy by the Pólya and Schoemaker methods the patients were questioned with regard to (1) the return of pain or vomiting (2) their appetite and (3) their weight record Of those who could be inter viewed personally Roberts examined the blood of both groups and performed fractional gastine analy sis on the Schoemaker group only In the Polia cases only a little hile could be aspirated. An arbitrary standard of anamia was set at less than 4 500 000 red cells or a hamoglobus value of less than 60 per cent Cases operated upon within six months are not included in this report

The results of the clinical and laboratory examina tions which are presented in tabular form lead to the conclusion that the Polya gastrectomy carnes with it a serious liability to postoperative anamia attributable to achierhydria resulting from the on ration. The anamia was of the secondary type hut in some cases anisocytosis and poilifocytosis

were present

After the Schoemaker operation the patients are markedly free from evidence of anemia This type of gastrectomy has a lower mortality than the Polya operation gives better clinical results and is a sump ler operation to perform. It is radical in that it removes the ulcer bearing area and the pylonic sphincter and permanently lowers the acidity but it is also conservative in that it leaves a stomach with a function approaching the normal

The cases in which Morley performed a Polya gastrectomy for gastrojejunal ulcer are too recent and too few to warrant conclusions as to the outcome but the clinical results to date are excellent prob ably because of the radical reduction of the acidity

Test meals within six months after Schoemaker's gastrectomy showed achlorhydria Chloride esti mations proved this to be due to the absence of secretion rather than to the neutralization of acid after its ecretion. A repetition of the test on six of the achlorhydric patients with the injection of 1 mgm of histamine subcutaneously to stimulate secretion showed a definite increase in chlorides in one and a secretion of acid in three. This indicates that the achlorhydria is due probably to a disorganization of the reflex or hormonal relations of the different parts of the stomach rather than to the diminution in the secreting surface. Analyses at longer intervals after the operation showed the secretory capacity to be largely or fully recovered

After the I blya gastrectomy test meals fail to give conclusive evidence as to whether or not the postoperative achlordy drta is to he attributed to

neutralization since as a rule only small samples are obtained from the stomach on account of the almost immediate emptying and these contain a consider able proportion of hile which has a relatively high chloride concentration E S PLATT M.D.

Miltar T MeW A Pedunculated Extragastric Leiomyoma of the Stomach with liamorrhae c Degeneration Best J Surt 1028 XVI 111

The case reported was that of a man thirty seven years of age who had been well until six months prespously when he suffered a brief attack of street pain in the upper abdomen Since then he had been well until two neeks before he was seen by the author when he first felt out of sorts and seemed paler than usual

On the morning of the first day of his illness he had eaten a hearty breakfast. Two hours bier while at work he noted a vague discomfort in the epigastrium This discomfort gradually incres ed The patient stated that his stomach felt as in or it were ballooned up with gas He became na ea e but did not vomst Four hours later while straining at stool he was suddenly seized with severe pon in the upper abdomen and fainted Dunry the pert six hours the pain became incressingly more severe When the patient's physician first saw hm es hours after the onset of the condition definite new its and tenderness were present over the upper half of both rects A diagnosis of leaking gastry or due

denal ulcer was made

At operation the abdomen was found filled sub hright red fluid blood and a large so t cost c tumor was felt in the lesser sae fixed to the posterior wall Dunng manipulation the test ruptured and old blood was evacuated Several large dilated senous channels were found an the cyst wall but no point ol active bleeding could be discovered. The crat bung by a thin pedicle from the posterior wall of the stomach 34 in below the lesser curvature and almost

opposite the mid point of the latter Potal removal of the tumor was impossible be

cause of the dense adhesions to the posterior wall of

the lesser sac Microscopic sections revealed characteristic leiomy omatous areas in the cyst wall with considerable hamorrbage throughout

The case was particularly interesting because of the large amount of intra abdominal hamorrhage associated with the tumor

STANLEY II MENTRER M D

Examination of the Gastric Con-Dunton D M tenta as an Ald to the Diagnosis of Carcinoms of the Stomach Edinburgh M J 1928 xxx 497

An analysis of the gastric contents was made in nmety three cases In seventy five it was done by the fractional method in fifteen by Ewald's one hour method and in three by examination of the resting juice The results of the various tes.s are presented in tables The author draws the following conclusions

1 Gastric carcinoma may be diagnosed or excluded in the vast majority of cases by examination of the stemach contents alone

2 The significant findings in the diagnosis of this disease are the presence of achlorhydna lactic acid blood and evidences of stagnation

3 The absence of free acid and the presence of

lactic acid are found in the majority of cases of gastine carcinoma and such a finding probably occurs in no other condition 4. The absence of lactic acid in gastine contents which show no free acid or the discovery of free

which show no free acid or the discovery of free hydrochloric acid in large quantities makes the presence of gastric carcinoma improbable

5 The absence of free acid and the presence of lactic acid may not be evidence of an advanced stage of carcinoma

6 Lactic acid found in the stomach is not in veriably caused by the fermentation of the gastric contents. It may be sarcolactic acid produced by the tissues involved by the growth.

7 The Congo red and dimethyl tests for free hidrochloric and are not trustworth; as they do not indicate small quantities of free hydrochloric and

8 When the agent is freshly prepared Gunz berg's test is a reliable indicator of the presence of free hydrochloric acid

9 Uffelmann's test for lactic acid is valueless as it reacts to many other substances in the gastric contents

10 MacLean's test for lactic acid is simple and liustworthy J Frank Douchty M D

MacCarty W C Early Concer of the Stomach J Conce Res arch 1918 xii 1

Tettbooks usually describe cancer of the stomach in its clissical advanced stage not in its carless stages Small gastine cancers are rarely seen at upony and during life do not give signs or s imptoms by which they may be differentiated from chromic gailted licer duodenal uleer or sometimes gall blidder discase. In this experience with 3.3.4 static lissons the author has never seen a small with the control of the control o

cancer that was not in the border of a chronic ulcer Clinical experience with the stomach is similar to that with the breast I wents scars ago chronic mastitis was thought to be related to mammars cancer There are two possibilities The chrome inflammatori condition may be a direct lactor causing the cancer or the two conditions may be so clo etc associated and so often present together that it is frequently impossible to differentiate one from the other without biopsy. The first supposition may or may not be true. The second is true. Between 100 and 1012 breasts removed by the surgeon showed malignant changes more frequently than they howed benign lesions Since 1912 the benign lesions of the breast have outnumbered the malig nant lessons the chinical difficulties in diagnosing malignancy of the breast have increased 100 per cent the size of mammir) cancers is smaller the

relative number of cases with glandular involvement is smaller and the postoperative longevity is in creased

As it took time to perfect \ ray technique it was not until 1923 that benign lesions of the stomach were found to exceed the malignant lesions By fluoroscops it is now possible to locate even a small pastric plier but we cannot tell whether it is a simple ulcer or an ulcer showing early malignancy Within eleven years 12 5 per cent of the patients with a diagnosis of carls carcinoma in chronic gastric uleers have died of carcinomatous recurrences but none of those with a diagnosis of secondary extoplasis are known to be dead of cancer al though 7 5 per cent of them are dead of unknown causes. Of all the chronic gastric ulcers resected or excised and studied at the Mayo Clinic in the last eleven years o 7 per cent have shown either second ary cytoplasia alone or in combination with the stage called early carcinoma

These feets do not show that cancer arises in gastric ulcers but they demonstrate that chronic gastric ulcer is the common site of our smallest cancers. Until me find some serological or other test for the ealitest stages of cancer early cancer of the stomach cannot be recognized without exploration and micro copic examination of chronic gastric ulcers.

Poate II and Inglis L. Canglioneuromatosis of the Alimentary Tract Bril J S g 1928 vii

The authors report a case of ganglioneuromatosis of the alumentary tract in a man thirty cars of age. The patient was admitted to the hospital complishing of Gatulence fullness and disconflore in the epigastrum and pain behind the right shoulder. There was abstory of fullness and pun in the right have a substantial that the patient was constituted to possibly the patient was constituted. I construct had develored over a period of the coars.

This scal examination revealed nothing abnormal other than a peculiar fullness in the right side of the ablomen. There was no tenderness. Barium meal examinations of the stomach and duodenum should signs of chronic duodenul ulcer. No further examination of the intestinal tract was made.

Operation revealed a chronic ideer in the duode num and a large of it mass distending the caccum and ascending colon. The mays was resected a lateral anastomo is between the ileum and transs rese colon was performed the duodenal uter a vis occessor, was performed the duodenal uter a vis occessor, patient mode as uninterrupted recover; and when he was seen eighteen months later was free from symptom.

Gross examination of the external surface of the specimen which consisted of the terminal ileum the appendix cercum and ascending colon showed no abnormality but when the specimen was opened two firm nodules about z cm in diameter were found projecting 4 cm into the lining of the ileum at a point 3 cm from the sheerical juncture. The modules were covered by apparently viatet mucous membrane. The appendix was unmodered. The account contained two irregularly rounded tumor masses, 4 and 15 cm. respectively in diameter. Apart from these masses quite two-thirds of the will of the excum was diffusely thele-ned by neoplestic tissue wavraging a cm. from mucous to produce the state of the state of the state of the main growth. When the there is no considerable main growth which extended a norm of the state and consisted of lobulated tumors involving about nine-tenths of this portion of the bowel. The three largest masses measured about to by 5 cm and prajected from 3 to 4 cm. into the lumen. The microsa was apparently intext.

Microscopically the tumors consisted chiefly of inforcellular issue in which little resemblance to nerves could be detected. In places they were composed mainly of enlarged and shoormal nerve-trunks. They were situated within the circular muscle of the bowel in the region of Messner's plevus. Some of the growth extended into the muscularis mucose. Ganglion cells showing de generative changes were present in farge numbers. The mucous mentivare showed a marked inflamma tory rescition in which a large number of cosmophiles in the properties of the composition of the composition of the visual properties. The thickness will be the visual time the probability of the composition of the visual properties of the composition of the visual properties of the composition of the visual properties.

phasic origin.

Roman and Arnold have suggested that the tumor is made up of nerve fiber cells of Schwann the inference being that the tissue is epiblistic instead of mesoblastic in origin as has been previously be

keved

The article contains a plate showing the gross specimen and five photomicrographs of paraffin sections stained with harmatoxylin and cosin

J EDWIN KLEEPATRICK M D

Warren R Cancer of the Intestine Lancet 1928

This report is based on sixty nine cases of cancer of the howed sculding the rectum in which the diagnosis was verified at operation. The toungest patient was a boy fitten parts of age and the oldest a man of seventy eight years. The sixte of the property of the part of

One of the symptoms most suggestive of intestinal cancer: i trregular action of the bowels of recent origin in a middle-aged or elderly person who previously has had normal bowel action

In fifty seen of the cases reported preliminary.

In fifty seen of the cases reported preliminary
drainage by colostomy or latter and one. In the twelve others the operations was
primary excision and anatomosis or a colostomy is the crecim. End to end anastomosis has given the author better results than the
lateral method.

Slesinger E G An Enteric Cyst of Large Size in a Boy Brit J Surg 1928 Xvi 333

The case reported was that of a boy seven joins of age who had had attacks of gripping generalized abdominal pain associated with vomiting at intervals of about six months for four years. Leiter

treatment with rest and starvation he recovered from these attacks in three or four days Examination revealed an abdominal tumors hill

to the left and below the umbilious
At operation the tumor was found to be an entend

At operation the tumor was found to be an enter cyst situated about 8 ft above the eleococal wire. The intestine was resected with the mass and as end to end anastomosis was done. Good recovery followed:

The article contains a colored illustration of the sesected intestine and attached cost

den eyst Carl R. Steinke, M D

Cutting R A The Relative Mechanical Strength of Enterostomies Performed with and without Clamps An Experimental Study Arch Sur 1923 Avn 6.3

The author found that weight for weight the jejunum of the female dog is slightly stronger than that of the male dog

The strength of enterostomes performed by tokclamp and clampless techniques was about one third that of pormal intestine immediately silter the enterostomy then progressively deterested for the dars then rapidly and progressively increased by to or exceeding the strength of normalities the by the tenth day then suddenly fell again to abort 50 per cent of the strength of the mixt inventors

on the eleventh day and again increased on the

recent data common performed by eather in the shorted marked variations in strength on all post operative days up to and including the tellular technique may be constant as possible and postoperative care was the same in all cases variations exercing to provide a contract of the contra

ARTHUR L SUBSEFILER M D

Hurst A F and Stewart M J Jejunal and Gastrojejunat Ulcers I Ectology and Pathol ogy II Symptoms and Diagnosis Lancet 1928 CCEV 742 805

The authors emphasize that journal ulcer is a frequent and dangerous sequel of gastrojejunostomi particularly when the anastomosis is performed for duodenal ulcer. They are of the opinion that its incidence is much greater than is generally believed.

In a consecutive series of 10,300 autoposes per formed at Leeds there were 131 cases in which gastro-guinostomy had been performed for a wor malignant fesion. In 46 cases in which death had occurred within ten days after the operation there was no gastro-guinal ulceration. Among 41 cases

in which death had occurred from ten dans to two
months after the operation there were 2 cases
months after the operation there were 2 cases
to guital ulceration and 1 case of acute gastro
mountal ulceration In 2 cases in which death occurred two and ist months respectively after the
operation there was no secondary ulceration Of the
cases in which at least nine months had mitercented
between the operation and the patients death
journal or gastrojejunal ulcers were found in 52 per
cent

Regarding the recurrence of jejumal ubceration following conservative surged procedures. Hunst and Stewart state that this was found 4 times in 2 cases in the Leeds series and 8 times in 44 cases in the New Lodge series. The presence of tree hydrochioric and an infection (focal and Joeal) are mentioned as factors concerned in the pathogeness of three leasons.

In about 20 per cent of the cases the gastroje junal or jejunal ulcer appears to develop imme diately after the operation. The symptoms are simi lar to those of the original duodenal ulcer but the time of oaset of the pain is more irregular and is generally earlier alter meals The pain is less completely relieved by food or sodium bicarbonate and is usually felt on a level with the umbilious generally to the left of the midline Vomiting is rare Hamorrhage occurred in 21 of 43 cases of anastomotic ulcer In only 1 of 22 autops; cases was it the immediate cause of death. In 84 per cent of another series occult blood was found in the stools Examination of the gastric contents in 38 cases showed by perchlorhy dria in one-third and high normal values in 40 per cent despite the gastroje nunostomy While the majority of anastomotic ulcers are difficult to demonstate roentgeaograph ically it is frequently possible under the fluoroscope to palpate a point of tenderness strictly localized to the stoma or to some point within the first 4 in of the efferent sesunal limb

In conclusion the authors state that the posshilter of jegunal ulceration should always be considered when symptoms develop after gastrope. Junostomy In the differential diagnoss the lesson must b di tsugus hed from persistence or recurrence and the state of the state of the state of the state and the state of the state of the state of the pon an unleaded gastine tile Loss W. More, M. Destona.

Robertson W. E. Jejunocolic Fistula J. 1m M.

The author states that up to 10.24 the Mayo Chine figures showed 6.714, gastro enterostomes for both duodenal and gastine utlers In 83 (1.41 per tent) of the early of the syspatients later developed Ten (11.35 per cent) of the syspatients later developed a 1_juncode, fistula Therefore the modence of spurcode, fistula in a series of 0.314 gastro enteros tomes performed at the Vlavo Chine was 0.05 per cent and the notclearce of marginal utler 7.44 per cent

Gastrojejunal ulcer is always persistent and has a tendency to perlorate hence its relation to the formation of fistulous tracts. Many marginal diseases escape notice in general practice unless they give rise to fistula. Although improvement in the opera two techniques uncluding the abandonment of non absorbable source maternal has maternally lessent the incidence. On the property of the propert

as a potential case of magning light or of instudied According to Moore and Marquis the causes of magning little of magning little are considered from the magning little of magning little of magning little or an admittant focus of infection trauma at operation the use of non absorbable suture material and persistent hyper chloribuda. The ulcer is usually small and may he mucous penetrating or perforating. The most frequent complication is a faituless opening into the colon. From the N-ray standpoint, the indirect signal are gaster referation calargement of the stome action particularly of the discussions arrivanting and three gastine spasicity and duodent stoom narrowing and three-glustiny of the junium a scant flow through the opening and fixation at the site of the manstomosis.

Verbrugge distinguishes four stages in cases of fistula

The development of the primary ulcer

2 A period of relief following gastro-enterostomy This ranges from one week to ten years but as a rule is from six months to a year. In the Mayo series the minimum was three weeks and the maxi mum ten and a half years.

3 A period of progress of the marginal ulcer Fistula may develop without ulcer formation

A The fixtula period ranging from two and a half months to tractive vars. In the Mavo cases it ranged from une months to five vears and four months. In once the most common signs are dur theat which is more or less sudden in onset and sometimes lenterie. Loss of fieth is constant. Pan susses foul erectations and vomiting are variable to the majority of cases there is pain Deh dradialo occutes when the condition has been present for some them to be a considered to the color in a part of the color of the color in a part of the color o

Bargen J A Ulcerative Colitis J Am M Ass

The evidence at hand indicates that chronic ulcerative colitis is an infectious disease due to a diplostreptococcus of characteristic morphological and hological properties. That it is a definite disease entity is no longer open to question.

The author emphasizes the importance of a proctoscopic examination in all cases of rectab bleeding and of careful roentgenological investigation with a barium enema in suspected cases of ulceration of the colon since by such procedures the disease can be distin gui hed from other types of colonic ulceration and treatment can be instituted early with possible avoidance of some of the serious complications

The treatment of chronic ul excitive colors is of intest to all physicians. It requires patients and careful observation over periods of months. If the patient is not kept under constant surveillance he is apt to drift from one physician to mother and may centually consult a quack. The treatment should be primarily medical. Surgers should be limited to be proposed to the constant of the constant

Mckendrick J S Kerr J M M and Young A Discussion on Diverticulities Glagos, W J 1928 ex 193

Mckennerce discusses diverticulties from the

general practitioners sports of view Divertice loss with its terminal stage of diverticulities i not an uncommon disease. Springer found diverticulity pres nt in 10 p r cent of cases in which an \textsup ray examination of the intestines was made after a barrum meil. In only 17 per cent of these cases were there signs of directiculities. When the Watere method is semplowed los gime of barrum sulphates are given in 600 ccm of buttermilk or malled milk and when for the enema from 400 to 450 gm of barrum sulphates are used to 2 pr of warm buttermilk, the solution finds its was early through outcomed, the solution finds its was early through outcomed to it the solution finds it was early through the signs of a treased and profile by othque and lateral views.

Diverticula develop chiefly in the descending colon and aigmoid. The diverticular state of the bowel is undoubtedly due to bacterial invasion of the inte tinal wall. The primary focus of infection may be an apical abscess spondyhitis of a septie con lition anywhere in the body. The atreptococcus hamplyticus has been found in the farces. The Year shows the colonic wall to be irregular in all or a part of its circumference. There is inferference with haustration and segmentation and the bowel may become anastic. The irregularity due to weak ening of the walls gradually gives rise to small h total protrusions which at first are very minute and situated between the longitudinal bundles at the entrance and exit of the small blood vessels They small pouch like sacs or protrusions are true hernix As the result of pressure or construction the muscular walls of the diversiculum gradually di appear until the hermal sac is formed by only the mucosa and serosa. The diverticula are frequently present in the amendices epploice. They vary greatly in number. Their size vane according to the d ration of the pathological con bition At first small they gradually enlarge from internat pressure until they resemble Meckel's diverticulum presence of these diverticula causes the condition known as diverticulosis Facal matter firds its was into the pouche and facoliths are formed Foreign

bodies have been found in the diverticula. Divert culitis is preceded by the diverticular state and diverticulosis

Certain pathological changes may take plier as fully developed diverticulum. A saute catardy condition often develops which may leaf to the formation of adhesions to neighbong structure, gargerese and perforation resulting in general perforation than the production of the bladder owarrs or utnus or the formation of an abuse with abis, or the bladder owarrs or utnus or the formation of the bladder owarrs or utnus or the formation of the production of the prod

The disease is most common after the filtich year of age and occurs more frequently in men than if women Most of the subjects are obe e and con stipated In the predicerticular sta e there is often pain in the abdomen usually below the unbines and on the left aide which is not related by drugrecurs often and is associated with constipat or and flatulence Diverticulitis is characterized by con supation pain in the left a de terdere es nad " of the rectus muscle distention frequert mictar " lever leucocytosis a d in the roentgerogr m & typical irregular palisade-line appearance of the sigmoid with pouches or crescerts along the ides of the bowel. The face rarely contain blood ther supture the puture is that of pentori'is The pall able tumor ma s is frequently diamered as a caremona of the bone

In the treatment the month should be kept clear the teeth stended to and all sources of 1 can removed. The diet should be of a lactoception character comes ting of multide milk and an abad dance of mashed and secred vegetable and furst The bonels should be kept open with paid on Massage of the shodomen a unsate for the should be all the should be kept of the should be a saline central about every third do, are benefical When signs of obstruction develop a coo tour short circuiturg operation or resection should be

LERR discusses the chinical man festations of dust ticultus in women. He states that the condition is encountered in both an acute and a rhrone form

One of herrs first cases of discretionliss was opcrated upon under the disprass of operant retrated upon under the disprass of operant resulting quanty the abdonner herr concluded thich was dealing with a malignant tumor of the bood like abdonnen nas therefore promp h closed land undavariable prognosis gence. Secreti carrier that pattent a ph-sacran reported that the confined actually recovered from her park. Herr rescrict the colon under the impression he was dealing with a carrieroma.

herr reports a case of infected diverticulum which produced chionic inflammation with theken ing of the sigmoid and rectum simulating a rial gnant tumor a case of large perirectal effu ion simulating an ovarian tumor and a case of pelvic abscess due to

In many cases of diverticulties recovery results from bed rest regulation of the bowels and a suit able det. In others surgical treatment is necessary Surgical treatment is nuch simpler and safer in the femile than in the male because in the female drainage can be established through the posterior vaginal formus.

Not so reports the case of a woman fifty three parts of age who sought treatment because of s was possed to partial and increasing intestinal obstruction Fraumation rescaled a tumor in the lower part of the abdomen on the 1 ft side A diagnosis of car momentous structure of the supmoid or pelvic colon was made. Operation revealed a large fixed mass movelying the sigmoid loop and swollen appendices epipious. A colostomy was performed. Two years later the pattent was quite well and had gained weight. Eleven years later she was still in good health Cases of intestinal diverticulous are divided into

the following groups
Group: Cases of simple diverticulosis with little
or no infection and no symptoms
As a rule thus
condition is overlooked entirely. A course of sys
lematic colonic lavage will keep the pouches open
and wash out the facal impactions

Group 2 Cases with a more advanced stage of the same pathological changes with infection supervening in the diverticula

Croup 3 Cases in which the infection has passed beyond the walls of the diverticula and a local or general pentonitis pelvic abscess salpinguits astular or abscesses may be present. The infection may spread retroperitoneally and cause a peri nephtitic abscess

(roup 4 Cases with progressive development of partial to complete intestinal obstruction with one

or more large diverticula

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₹,

(roup 5 Cases in which a diverticulum not only simulates a carcinoma of the sigmoid but may be the antecedent stage of cancer in the opinion of the Mayor catcinoma develops in 25 per cent of cases of diverticultis

Matter reports that in a series of 500 autopsies distribula were found in 34 cases and in practically early instance the site of the lesion was the sigmoid approximately 1 patient in 8 over forty five veries of 250 and 100 to 100 to

For \ ray examination Mailer regards the barrum enemy as the method of choice

JOHN W NIZEM M D

Bargen J A Chronic Ulcerative Collits Associated with Malignant Disease firth Mrg 1928 von 561

The term chronic ulcerative colitis has come to mean a definite disease entity which presents char act istic clinical pathological procto copic and toentigenological changes

The disease is a severe infection of the colon and carries with it serious complications and sequelic

such as polyposes perforation stricture hamor rhage perirectal fistula and abscess arthritis and malignancy

Of the patients with chronic ulcerative colitis who presented themselves at the Mayo Clinic in the period between 1916 and 1927 inclusive malignant disease was superimposed on the colitis in 20

The naucity of reports in the literature on malig nant disease of the colon developing in persons with chronic ulcerative colities is noteworthy. Struthers emphasized the relationship of chronic ulcerative colitis and polyposis and suggested that malignant Hewitt and disease may follow these conditions Howard made similar observations Wheeler be heves that polyposis occurs as a result of chronic ulcerative colitis Helmholz suggested that Virchow and Rokstansky may have described the terminal stage of chronic ulcerative colitis Soper's work on multiple polyposis of the colon has been illuminating At the Mayo Clinic the development of polyps has been noted proctoscopically in the course of progressing as well as healing chronic ulcerative colitis Logan found polyps in 10 of 117 cases Later the author noted them in 6 of 200 cases

The various reports in the literature the frequence with which polyposts has occurred in the seenes of cases of chronic ulcerature colitis at the Maso Chinic and the simultaneous occurrence of polypo and caranoma in the diseased colon suggest that in some case of mabignant disease of the colon the sequence is (1) chronic ulcerature colitis (2) multiple polyposis and (3) malignant disease.

Mahgaant disease supermopeed on chronic ulcer attace colitis has a grave prognosis. Whenever a student change for the worse is noted further procto scepie and roentgenological investigations should be made. Operation vields discouraging results even if the malgaant condition is discovered fairly early Fherefore method; treatment must be considered. The only hope it seems is preventive treatment that is the cure of the colitiss and the removal of the polyps.

MacFarlane J A Submucous Lipoma of the Colon Report of a Case 1rch Surg 1928 x 11 6

The author reports a case of submucous lipoma of the colon in which operation was performed following a diagnosis of carcinoma. The rarity of lipoma of the colon is evident from the fact that according to Moore only 6 as as were found in 44 654 opera tons performed at the Vilso Clime. MacFarlane that the colon of the polynomial of the colon of the polynomial tomost of the colon of the colon of the polynomial tomost of the colon of the colon

ARIDER L SHREFFLER MD

koster II and Weintrob M. The Blood Supply to the Appendix 1 teh St. g. 1928 xvii 577

This article reports a study of the arteries of 100 human appendices normal and pathological which

were removed from persons in the first to seventh decades of life inclusive. The appendicular artery was injected with a barrum sulphate gelatine sus pension of known viscosity. The apparatus for making the injections is described in detail

Macroscopic observations on the blood supply to the normal appendix show that the arterial tree is remarkably constant in its architecture. The blood supply is divided into two layers the deeper being the richer There is absence of a distinct blood supply to the mucosa. The appendicular braoches of the second third and subsequent orders have a remarkable corkscrew and spiral character. The richness and profuse anastomosis of the blood supply

of the appendix are striking Inflammations of the appendix are consistently paralleled by changes in the course and character of the blood vessels. When the pathological changes in the blood supply have progressed to vascular obliteration complete return to normal is hardly

to be expected

Farr C E and Brakeley E Appendicitis in Chil An Analysis of Cases from St Mary e Free Hospital for Children and the First Sur gical (Cornell) Division of the New York [los pital Surg Clin A Am 1928 vin 1193

ION I NEELE M D

Appendicitis is usually considered to be fess fre quent in children than in adults but no doubt a large number of minor attacks in infants and young children are entirely overlooked or incorrectly

diagnosed

In the young a cappling of the appendix due to abnormality of its position and bands and kinks around the carcum not of inflammatory origin is relatively common This condition should not be confused with chronic appendicitis due to definite inflammation of the appendix. In examinations of the appendix in children at operation and autopsy a high incidence of serious involvement has been found In many instances this involvement occurred with few or no clinical signs

The diagnosis of appendicitis is more complicated in the cases of children than in those of adults be cause of the difficulty in the former of charing an accurate history Appendicitis must be differentiated from simple colic, pyelitis intu susception cyclic vomiting tuberculous peritoritis and retroperitorical lymphadenitis. It is best to advise operation whenever there has been an attack at all suggestive of appendicitis

The progress of appendicutes as very little more rapid in children than in adults Examination of a small child or infant is best done while the patient

13 asleep

In a review of 2 series of cases of appendicates in children totaling nearly goo cases the authors found that the condition occurred with about equal frequency in girls and boxs. Acute appendicitis was most common at the fourteenth year of age and chronic appendicitis most common at the fifteenth year The mostality was 59 per cent in one series and 7 5 per cent in the other All of the dea hab ; I were due to toxemia from spreading peritonitis. The average interval between the appearance of the symptoms and the operation in the 2 series was two and seven tenths and two days respectively & miti. occurred in all except a cases. A cathartic had been given in very few instances

In the acute cases the mortality depended chelly upon (1) the severity of the attack (2) the time at which operation was performed and (3) whether or

not a cathartic had been given

In a series of cases the McBurney incision was used about twice as frequently as the right rectus incision and in the other series the right rectus in cision was used about twice as frequently as the McBurney incision The right rectus incision is to be preferred as it gives better exposure and allows more complete abdominal exploration

Of the cases in which drainage was necessary in the first series rubber dams and cigarette drains were used in 75 per cent. In the second eres the Mikulicz tope of drain was used most frequestly

Chronic ca es made up 16 and 25 per ernt respec tively of the total number of cases in each senes In the chronic cases in the first senes there was a death and in 10 per cent the appendix was normed In the chronic cases in the second series there vere no deaths and in 5 per cent the appendix was normal In some of the cases in which micro corie ex mini tion showed the appendix to be normal there were adbesions kinks or concretions which accounted for the symptoms Complications we e pr ent in ?; per cent of the cares

In approximately 65 per cent of the cases no perforation had occurred yet in 17 per cent of these

drainage was established

Abscesses were found at operation in 12 per cent of the cases of the first series and 17 per cent of those of the second series In the first series the mortality an the cases with abscess was & per cent and in the second series a per cent

In the first series spreading pentonius developed in 18 per cent of the ca es and was responsible for a mortality of 42 per cent. In the second series it developed in 16 per cent causing a mortality of ,

net cent

In the first series the most common complications besides peritonitis and abscess formation nere th second wound infection and pneumonia and senes wound infection and pelvic abscess

The merdence of sequelæ was about the same p both series The chief sequela was postoperative CYRIL J GLASPEL M D bernia

Bancroft F W Acute Appendicitis with a Refer ence to the Advances in Treatment During the Last Ten Years and the Possible Progress for the Ensuing Ten Lears Surg Chin V Am 1025 1 1 077

Bancroft compared the mortality and complications of cas's of acute appendicutes treated to 1917 and 1927 to determine what advances have been

made during the past ten years and what improve ment we may expect in the mortality and morbidity statistics in the future

The mortality was practically the same in the two series namely 4 per cent. It averaged 0.8 in cases without a peritoneal reaction and 17 per cent in cases

with acute diffuse peritonitis

The first advance made during the last ten years was a decrease in the incidence of postoperative herms in cases in which drainage was established Thiss was accomplished by sutrung the perioneum about the drain, and leaving the remainder of the mount wide open but loosely packed with going between the drain. The formation of bermin in favored by poor musculature and lowered resistant.

The second advance was jejunostomy for me

chanical or paralytic ileus

The third important step was the intravenous or subcutaneous use of hypertonic saline solution for clustry too.

During the past ten years there has been no marked decrease of the mortality in cases of pen

tonitis or abscess

For the reduction of the mortality at is necessary that physicians diagnose appendicutes early and refercases immediately for operation. An expert ansithetit trained to induce either general or local anzishesia should always be at hand for emergency cases. A duodenal tube innerfect through the noce mit of the stomach or duodenium at the time of operium will eliminate vomitting and persistalists thus being not control the spread of infection. Suprablessed drausings of the cult de sox through a small being of the culture of the stomach of the value especially the operation very little and is of value especially the operation very little and is of value especially the operation with the said of value of the culture of the culture of the culture to the culture of the value especially the culture of the culture of the culture of the value especially the culture of the culture of the culture of the value especially the culture of the culture of the culture of the value especially the culture of the culture of the culture of the value especially the culture of the culture of the culture of the value especially the culture of the culture of the culture of the value especial of the culture of the culture of the culture of the value especially the culture of the culture of the culture of the value especially the culture of the culture of the culture of the value especially the culture of the culture of the culture of the value especially the culture of the culture of the culture of the value especially the culture of the culture of the culture of the value especially the culture of the culture of the culture of the culture of the value especially the culture of the value especially

The abdominal incision of choice is still disputed the Melliumey incision has the disadvantage that it does not afford a satisfactory exposure for difficult it does not afford a satisfactory exposure for difficult dissection une ses the surgeon is fully acquainted with the various methods of extending the incision. The right rectain sincision permits better exposure of the execution and appendix but frequently traumalises the deep repagative vessels destroys the nerve leading by mellioning the time to cross the terminal leading by mellioning the time to cross the terminal leading by mellioning the time to cross the terminal leading to the rectus incision was used than one cases reviewed postoperative berman was not commended. It general the Melliumey incision was employed. In general the Melliumey incision is at

When the appendiceal stump is inverted care should be taken to lightle a small vessel which travels along the execute to the base of the appendix thus preventing secondary bleeding into the bowel. If the execut wall is indurated no nttempt at inversion should be made.

Cigarette drains are preferable to tubes as tubes are more rigid and seem more prone to create

necrosts with the formation of a fecal fistula. Two eigenetite drains are used and one is removed at the end of twenty four bours since after that length of time drainage will occur in the tract adjacent to the remaining drain.

After the operation the author's patients are placed in a high Fowler position and given tap water by rection II a duodenal tube is in place they are encouraged to drink water. The occurrence of womiting when the duodenal tube is in place is evidence that the tube is occluded. During the first forty eight hours the author gives enough morphine to a holish nain and diminish peristals.

CYRIL J GLASPEL M D

Moore A B Diseases Affecting the Distal Ifall of the Colon J Am M Ass 1928 < 1 1994

Most diseases of the colon when advanced give rise to pronounced and diagnostic roentgenological siens Larly lesions are less emphatic in their mani festations less easily discovered and more difficult to distinguish fmm each other than equivalent lesions The stomach is comparatively of the stomach small and can be inspected from every angle. It has definite motor activities which are altered by dis ease, and even minute deformities in its contour are usually significant of disease. On the other hand the colon is many feet in length and is difficult to study from different angles It seldom evinces nny definite motor phenomena during the remod of examination and small irregularities of contour are likely to be meaningless. However some of these handscaps can be offset and the diagnosis of colonic disease made more efficient by active couperation of the roentgenologist prottologist and clinician Among the roentgenologually demonstrable dis

Among the roentgenologically demonstrable diseases that affect the distal portion of the colon from the spleane flexure to the rectum the three most compon are disertativities cancer and ulterative cohits. Of much less frequent occurrence are benign tumors electrical strictures tuberculosis and

Hirschsprung s disease

Diverticula occur in every part of the alimentary canal but are found most frequently in the colon especially in the distal half They are found in approximately 5 per cent of all patients examined with the \ray In most cases the sacculations are few without symptoms and without clinical significance Often especially in the sigmoid they are numerous and become inflamed-diverticulitis and pendiverticulitis. The inflammatory thicken ing produces a corresponding narrowing of the barrum filled lumen of the bowel. The marrin of the narrowed lumen is likely to he serrated and if a few diverticula which appear as round or oval shadows projecting from the lumen are also visible the diagnosis can readily be made. If no diverticular shadows are manifest the appearance may be difficult to distinguish from that of colonic spasm cancer or adhesions

Cancer is rather common in the distal colon. Its principal manifestations are a narrowing deforming

defect in the barium shadow with or without ob struction to the enema Scirrhous cancer often encircles the bowel producing the stenotic so called napkin ring form and is easily recognized Medullary cancers grow rapidly ulcerate deeply and deform the lumen grossly It the site of the defect a mass can usually be felt

Chronic ulcerative colitis usually begins in the distal part of the bowel and progresses apward When it is well advanced the affected bowel when filled with the barrum enema is narrow devoid of haustra and smooth and pipe like or deeply con stricted at intervals so that it resembles a string of sausages Frequently the colon is contracted lon gitudinally the splenie flexure being thereby drawn

Kraske II Operation for Cancer of the Rectum (Zur Operation des Mast tarmkreb es) Bette klen Cher 1928 celtt 408

The purpose of this article is to show that in suitable cases the sacral operation yields as good permanent results as the present day radical com bined methods The modification of the classical Kraske operation used at the Freiburg Clinic is as follows

With the patient in the prone position a V shaped skin theision is made along the borders of the sacrum When amputation is to be done the incision is extended downward toward the anus and the flap of skin and fat is turned upward. The coccvx and sacrum are then resected the rectum is exposed the abdominal casity opened the sacral cavity cleaned out and the rectum pulled down and re sected as usual Only when the proximal loop is short is it autured circularly Otherwise it is drawn through and after the operation is dilated with hougies The peritoneum is closed only if the su turing can be done easily Adhesions form so fast that there is little danger of peritonitis

For from forty eight to seven two hours after the operation the wound is loosely packed with iodoform gauze The skin suture is usually omitted as the flap falls easily into place. If the intestinal stump is short it is sutured into the left upper angle of the incision and later closed with bandages the stump is long an incision is made in the gluteus maximus at the level of the left posterior superior spine of the ischium a speculum is passed through the muscle into the operative wound and the closed stump is drawn through the speculum so that it does not come into contact with the muscle and is then sutured to the skin

After this operation there is absolute muscular closure in the standing position. In the sitting position the anus opens by the pressure of the body and spreading of the legs

In a total of 500 cases of rectal carcinoma treated

in this way at the Freiburg Clinic the operative mortality was 20 per cent Recurrence developed in 45 per cent and a permanent cure resulted in 25 per cent WASSERTRUEDINGER (Z)

LIVER, GALL BLADDER, PANCREAS AND SPLEEN

Wilkle A L The Significance of Hepatitis in Rela tion to Cholecystitis An Experimental Stud B il J Surg 1929 XV1 214

In the experiments reported which were per formed on rabbits the gall bladder was disected from its liver bed separated from the liver by the interposition of omentum and fixed in its new postion by a suture. In one group of animals the cistic duct was ligated to exclude all lymphatic and blood connections between the gall hlad ler and its bed care being taken not to include the vessels. In another group the cystic duct was left intact to the end of four months the animals which were used as controls showed no ill effects from this opera tion and when they were killed necrops) showed no

definite pathological changes in their gall bladden. In the experiments on the remaining animals prepared as described and on controls without separation of the gall bladder from its liver bed streptococci from human cystic lymph glands dring ing diseased gall bladders were injected in small numbers for six or seven weeks and the animals were

killed at the end of four months

In both groups of experimental animals—thou with and those without ligation of the cystic duct-s marked cholecoatitis resulted but the liver substance remained normal

In the controls without separation of the gall bladder from the liver the inoculation produced cholecystitis with marked hepatitis

The author draws the following conclusions There is experimental evidence that the intra mural gall bladder lesson in cholecystitis precedes the common liver changes in that disease

The infecting organism probably reaches the gall bladder wall by way of the blood stream

The article contains seven photomicrographs I EDWIN KIRRPATRICK, M.D.

D amond J S The Value of Routine Estimations of Blood Billrubin With a Report of 567 Cases Including a Group of Unrecognized Toxic Hepatitis 4m J M Sc 19 8 clxxx1 311

In the latent state of seterus before evidence of clinical jaundice has appeared most information is obtained from an estimation of the blood bibrubin In a routine examination of chronic ambulatory patients with symptoms of digestive and nervous disturbances a group of twenty nine were found in whom hepatic derangement was indicated by a high blood bilirulin value corresponding to the latent stage of icterus This condition represent a clinical entity which may be designated as bepatic toxemiz the result of chronic hepatitis It may possibly be regarded as the precursor of chronic hepatic circhosa

Thirty eight cases of cephalic and abdominal migraine were found to give high bilirubin readings in the latent stage pointing to hepatic disfunction

as a contributory factor to this disorder

In the large group of cases of cholehthiasts and cholecystus the test is of value only during the acute hilary attack when it serves to differentiate the attack from other types of abdomnal colic including tabetic crises and anging pectoris

SAMUEL KAHN VI D

Fulton W.S. and Sheppe W.M. Actinomycosis of the Liver Virginia M. Month. 1928. iv. 443

The authors state that so called primary actino mycosis of the liver is rare. Its incidence in the United States is estimated at less than o 7 per cent. This article reports a case of 1 olated actinomy.

coals of the liver in a white woman thirty four years of age who gave a harry of attacks of epigastic participations of the liver in a white woman thirty four years of age who gave a harry of attacks of epigastic participations of the participation of the participation of the participation of the participation of the papendy had failed to give relief. At one tune begins were greatly swollen for three weeks following the extraction of a tooth. The patient had lost 65 bis and the gastro intestinal symptoms bad become processingly work.

Examation revealed an indefinite mass in the epigastnum and enlargement of the liver Labora tory tests showed a secondary anima and a leuco eytosis of 13 800 but were otherwise negative

Exploration revealed a large liver with a solid gravith yellow mass the size of an orange in the middle lobe Sections of the tumor mass showed numerous small yellowish gray nodules of pinhead size sharply demarcated from the surrounding liver substance which were filled with poly morphonuclears and characteratic actionomy cotic organisms.

The patient made an uneventful recovery and was discharged on the eighteenth day after the operation following thorough potassium iodide and deep \ ray

This case is cited as supporting the theory that infection enters by way of the gastro intestinal tract and reaches the liver by way of the portal vein Sanata William and trackes the liver by way of the portal vein Sanata William and the sanata was a sanata with the sanata was a sanata was

Boyden E. A. An Analysis of the Reaction of the Human Gali Bladder to Food. Anal Rec. 19 3 xl 747

\ \text{ study of the reactions of the gail histoders of kently four normal persons to a studentized fatty sently four normal persons to a studentized fatty sently for the students of the st

dye the gall bladders of the fasting subjects were not quescent but either tilling or contracting. Psychic atimuli such as the sight or smell of food caused their quick evacuation.

Following the inhihition of the fatty meal there was a very short latent period of contraction. Within two minutes after the food entered the mouth the gall bladder showed a marked diminution of volume

This probably corresponds to the latent period of one minte after the entrance of egy yolk into the duodenum which was established by McMaster and Elman mexperiments ondogs. The initial diminution in the volume of the human gall bladder is greater during the first two minutes than in any subsequent two minutes warrking 5 f c cm.

Following the first two minutes of activity in the average case there was a two-minute pause preceding the pincipal period of discharge which averaged thirty two minutes. During the period of principal discharge the gall bladder was reduced approximately there fourths of its volume. Therefore during the first part of a meal a large amount of concentrated bits is poured into the duodenum and there is a consequent increase in the flow of pancreatic juice. This observation alone is sufficient to prove that the buman gall bladder is a storage organ directly related to the process of direction.

to the process of digisation. Following the first phase of contraction the gall bladder is generally quescent for a short period varying from five to forth five minutes. Then comes the second phase of contraction frequently followed by several alternating periods of relaxation and contraction until extension periods of relaxation and contraction until extension for the second plane of the stomach or intestine.

With regard to the regulatory action of the sphineter mechanism at the outlet of the common duct the author concludes that the reasstance of the sphineter drops simultaneously nut the injection of food Approximately one minute later the gall bladder begins to contract About two minutes after the injection of food the resistance offered by the sphineter suddenly increases until it is greater than the force exerted by the gall bladder. Subsequent the food of the sphineter suddenly increase until it is greater than the force exerted by the gall bladder. Subsequent mutent spurts of food (egg volb) from the Subsequent Following each phase of contraction there is summe duste filling of the Sull bladder.

When hot bacon was thrust before the noses of eleven fasting students it was found that eight of them discharged a second oblief rom the state of them discharged a second oblief rom the state of the s

Held I W Roentgen Diagnosis of Galf Bladder

Disease Surg Cin \ 1m 1928 vin 1223

The author reviews in detail the various methods in use today in the study of the gall bladder by

means of the roentgen ray
Cholecystography as introduced by Graham
Cole and Copher is given consideration as regards

its development the technique of its application and its value not only as a diagnostic method but as a means of clearing up important physiological prob lems in connection with the gall bladder Studies in which this method was used to show the effect of drugs foods and other factors on the secretion and excretion of bile are described briefly From the diagnostic standpoint the procedure has yielded important information relative in the variable position of the gall bladder its size above and mobility its relationship to parts of the atomach the duodenum or shadows of doubtful onem its function as evidenced by the concentrating effect of its mucosa and the emptying of its contents and the visualization of radiolucent stones within it Although absence of a gall headder shadow after the administration of the die usually indicates a pathological condition and the presence of a normal shadow speaks against such a condition these find ings are not absolute

Gall bladder study without dye sields positive results in a variable number of cases depending largely upon the skill and care of the examiner Different roentgenologists have reported that they have been able to diagnose from s to go per cent of gall stones by the ordinary examination. George and Leonard have maintained that pathological changes in the walls of the gall bladder may ren der the organ visible in the ordinary film and that when the gall bladder is thus visualized it is patho

logical

Another method used in the roentgen diagnosis of rall bladder disease is the so-called indirect method which has as its object the demonstration of functional reflex disturbances of parts of the eastrointestinal tract and changes resulting from adhesions Thus various types of spastic contractions of the stomach gastric retention without an organic basis persistent gas distention of the hepatic flexure and distortion of parts of the atomach duodenum or colon have all been found in association

In conclusion the author states that roentgen ray study has proved to be an invaluable aid in the diagnosis of gall bladder disease. The direct and indirect method should be employed. The object of the direct method is to visualize the gall bladder proper This is accomplished by taking films of the gall bladder region with and without the administra tion of the dye The method of Graham (chole cystography) is by far the most valuable This procedure permits a study of the function of the gall bladder and makes it possible also to visualize cholestermized stones in a large percentage of cases. It shows with a high degree of exactness whether or ant the shadows in the right hypochondrium belong to the gall bladder The non visualization of the gall bladder after the administration of the dye is particularly valuable as it indicates a disease con dition.

The oral administration of the die is very re hable and promises to replace the intravenous ADOLPH HARTUNG M D method entirely

Bagglo G Cholecystectomy for Calculosis After Lassage of the Stone (Una colecistectoms per calcoloss a calcolo emesso) Pol d n Rome 19 5 XXXV Sez prat 1517

The patient whose case is reported was a women twenty eight years old In September 19 6 14 had an infection which was believed to be turn typhoid and lasted for two weeks. During this time ahe had a typical attack of galf stone colic. Similar attacks occurred in October and November and e attack in March 1927 The attacks then became less frequent but more severe and were accompaned by acterus and the appearance of bile pigme tin the urme

The author first saw the patient in 3lat 10 7 when ahe was having severe attacks every few days. Internists who had examined her had made a dig nosis of cholecystistis Roentgenolorical examination had failed to reveal any shadows of stones but a gall stone was found in the faces in an examination

made in an interval between attacks Cholecystectomy was performed during a pened of complete remission from pain and fever when there was no hile pigment in the urine Examina tion of the gall bladder was negative for stones a i bacteria The author concluded that if the inflammation had been caused by the paratyphoid bac tena the micro organisms had probably become enclosed in the calculus and destroyed The abdomen was closed without drainage. Uneventful recovery resulted.

In discussing the advisability of cholecy stectory under the circumstances present in this case Baggio states that he believes the operation was justified as the patient has had no further attacks of color AUDREY G MORGEN MD

Ibarz P L Cancer of the Gall Bladder (Cancer de la vesfeula biliar) An Fue de med Unit de Men tenidee 1928 mit 177

This is a report of cancer of the gall bladder in three women of from sixty five to seventy one years of age. In two of the cases there was no butory of gall stones or jaundice but malignancy was indi cated by loss of weight anorexia and digestive desorders The gall bladder was united to the colon and omentum by very dense adhesions third case gall stones and cancer were both present The gall bladder was free and tense and was distended with bile and stones

The tumors were of an infiltrating type. They did not invade the peritoneal coats but filled the gall bladder cavity with tumor mass and were ad herent to the liver fossa. Metastases to the heer

could not be found

Microscopic examination showed one tumor to be an adenocarcinoms with cylindrical cells and papillary formations Another was composed of cylin drical tubular and pavement epithelial cells with pearl formations The third was a papillary epthehoma composed of well formed typical cells which WILLIAM R. MEEKER MD secreted mucus.

Surgery of the Gall Bladder Erdmann J F Lahey F II

mann J F Surgery of the Gall Bladder Vew Endland J Met 1928 extra 703
sey F H Surgery of the Bile Ducts Vew England J Wel 1928 extra 707
d E S Sequelte and Accidents of Billary Surgery Vew England J Med 1928 extra 712
ses D F The Relation between Gall Bladder Judd E S Surgery Jones D F Disease and Pancreatitls \co England J Med

1918 CXCIY 716

White F N Some Medical Aspects of the Dis eases of the Gall Bladder and Bite Passages Act England I Med 1028 excit 210

ERDMANN states that he performs cholecystos tomy only in cases of suspected carcinoma or some other condition definitely obstructing the flow of bile. If cholecystostomy is to be efficacious under such conditions the obstruction must be below the cystic and benatic ducts

In acute cholecy stitis Erdmann rarely performs cholecystostomy the usual procedure being chole For eases of obstruction below the cystic duct whether due to carcinoma or pan creatitis he prefers cholecystogastrostomy to

cholecy stostomy

To show the harmlessness of hile in contact with the perstoneum the case of a noman who developed an enormous accumulation of bile in the peritoncal cavity after a cholecystectomy is reported observation is one of the reasons why Erdmann usually closes the abdomen without drainage after removal of the gall bladder. He has noted that deaths following operations on the hibary system are due to pneumonia or renal or cardiac com plications rather than to peritonitis

In conclusion Erdmann states that the occasional operator should perform the operation with which he is most familiar and which when performed by

him has the lowest mortality rate

Laney states that of 83, operations performed in his clinic for disease of the biliary tract 158 (19 per cent) were performed on the hile ducts. He has come to the following conclusions

t Common duct stones frequently exist in the complete absence of symptoms

- 2 Gall bladder colic may occur with jaundice and symptoms strongly suggesting the presence of stones in the common duct when no such stones can be found
- 3 Infection in the common and hepatic ducts may be unassociated with gall stones and may produce symptoms and signs similar to those of common duct and hepatic duct stones
- 4 Common duct stones may be present without jaundice or clay-colored stools and may be associated with such mild symptoms of biliary colic that only the suspicion of stones in the gall bladder arises in the mind of the examiner
- 5 Therefore in many cases of gall stone colic the surgeon must guard against a tendency to be satisfied solely with removal of the gall bladder and its contained stones
- For drainage of the common and hepatic ducts Lakey uses T tubes of smaller caliber than the duct

stself. In order to prevent pressure necrosis and the formation of a duodenal fistula care is taken that these tubes do not lie behind the duodenum cases with merely mechanical blocking of the duct by a stone unassociated with infection the T tube is removed on the tenth or twelfth day but in cases in which there is infection or a reconstruction of the duct has been done it is left in place for from two to three months. In cases of complete severance of the duct in which suture of the cut end of the duct to the duodenum is impossible the best procedure is the formation of a complete external biliary fistula followed at the end of three months or more by dis section of this canal to the bed of the liver and its im plantation into the duodenum stomach or jejunum For cases of obstruction due to malignancy in either the pancreas or the ducts Lahey advises chole cystenterostomy In the preliminary treatment of patients with jaundice be gives calcium lactate by mouth and calcium chloride by vein and transfusion Glucose is administered to maintain the glycogen reserve of the liver Most of Laher a operations have been performed under high spinal anasthesia

Jupp states that after operations on the gall bladder it is not uncommon for certain symptoms to persist. Such symptoms have been attributed to the passing of a mucus plug through the duct. In some instances however they are undoubtedly due to cholangeitis hepatitis or pancreatitis. The patient can usually be assured that the difficulty will

not continue

Judd discusses non calculous intermittent biliary obstruction and reports 28 cases Following chole eystectomy the chief complaint in all was severe colic. At a second operation, considerable dilatation of the common duct was found in every instance The hest results were obtained when prolonged drainage of the bile was established at this time Judd believes that the causes of the symptoms were biliary obstruction and inflammation of the pancreas and liver

Fistulæ following operations on the biliary tract may be of the mucous or the biliary type Before an attempt is made to repair a fistula the function of the liver should be carefully investigated

In the author a opinion injury to the ducts during the course of an operation on the biliary tract is usually due to insufficient exposure of the field of operation Attention is called to the fact that not all strictures of the common bile duct are due to injury some of them are the result of obliterative Jones states that the frequency of association of

gall bladder disease and pancreatitis has been esti mated at between 20 and 50 per cent. The rela tion of gall bladder disease to pancreatitis has been ascribed to (1) the retrojection of hile or duodenal contents into the pancreatic duct and (2) infection of the pancreas from the gall bladder through the lymphatics.

There appear to be two entirely different types of pancreatitis (1) acute hæmorrhagic pancreatitis in which there may or may not be co existing gall bladder disease and () chronic inflammation usu ally occurring in the head of the pancreas follow ing previous attacks of gall stone colic or chole cystitis

In the first type microscopic examination shows necrosis of the patenchyma and in the second type inflammation of the interstitial tissue—cute hymorphagic pancreatitis may be caused by a gall stone at the pupills of Vater or spasm of the sphine ter of Oddi allowing the entrance of bile into the macreane ducts.

The theory of lymphatic infection of the pancreas from a chronic gall bladder infection is not well upported by experimental evidence and seems to be disproved by certain clinical evidence.

Jones believes that gall stones should be removed with the gall bladder if there are no contra indications. He is of the opinion that there is no clinical evidence whatever to prove that the so-called chrome choice; sittis and the cholestered gall bladder have any crusative relationship to acute hemorrhagic pancreatitis.

For the treatment of acute pancreatitis fones advises incision of the capsule of the pancreas and drainage. For chronic pancreatitis he recommends the removal of all sources of infection and drainage of the biliary system for a period of at least two weeks.

Wattre reviews the known facts relative to the physiology and pathology of the gall bladder region and calls attention to the importance ol stasss and infection and changes in metabolism in gall bladder desease. He states that what was formerly known as the strawberry gall bladder is now called the cholesterol gall bladder. He stresses the impor

consected gal distore its stresses the import and physical tance of a credibly taken barony and physical or include the constitution of the constitutions. He distill the conditions is the constitution of th

The treatment of disease of the bulary tract should metude regulation of the delt weight reduction regulat ever the treatment of the metador regulation of the control of t

Ladd W E Congenital Atresia and Stenosis of the Bile Ducts J 4m M 4sr 19 8 xc1 1082

Approximately 170 cases of congenital atresia and s enosis of the bile ducts have been reported to date The author adds 20 cases 11 of which were treated surgically

These abnormalities have been attributed to on genital syphilis fetal pertonitis catarrial disha genia and congenital malformations. The suber believes that congenital malformations are not often responsible and that Jupp's theory of en bronne epithelial concrecence of the mucosa of the ducts best explains the lessons.

The so cases reported by Ladd induled 5 cases in which all of the dutes (common beptie add cystic) were represented by fiftness conts y cases of obliteration of the common duct is gases of particular obliteration of the common duct with distance all of the ducts and of the gall bladder loss which a moderately state gail bladder had to convection with the common and begate ducts which a moderately state of gail bladder had to convection with the common and begate ducts which a moderately state of gail bladder had to convection with the common and begate ducts which is the convection of the common and begate ducts which is the common and begate the convection of the common and the convection of the common and the convection of the common and the common and the convection of the

Of the 11 patients who were operated wpo 'e recovered Choledochodudochostoms in the operation of choice when it is possible. This operation of choice when it is possible. This operation was done in a cases with good results. Occasionally simple probing or dilutation of the ducts is we're still be merition of a catherit through the gail blader and the cystic and common ducts into their development of the control of the control of the cystic and common ducts into their development.

satisfactory in the single case in which it wil done.
The author believes congenital atresia and stenois
of the bile ducts is not as hopeless as it was formely
considered and advises early exploration in the case
of every inlant in which the condition is su pected.
STATEFY IT MEXTERS IT

Studies on Biliary Fistulæ (Ueber

Tammann Studies on Biliary Fisture (1998)
Studien an Gallenfi teln) Zent all f Chr. 1998
by Six

Tammann reports his re-ea ches on does in which a bihary fistula was established after ligation of the common bile duct by connecting the gall bladder and the urmans bladder by a tube Anama developed with great regularity the erythrocytes and the hamoglobin sank to two thirds their original values Except for the postoperative lea cocytosis the white blood picture was unrhanged Histological examination revealed a pronounced hæmosiderosis of the spleen and the abdominal lymph glands (storage of the hamoglobin iron in the depots of the reticulo endothelial system not excretion corresponding to the grade of the snæmia) The fact that in several dogs the bile fistuls anamia assumed a progressive character after splenectom suggests the presence of a regulatory mechanism in the reticulo endothelial system

Investigations as to what constituents of the bile are responsible for the occurrence of he-h tila anamus showed that feeding with ox gall will hong about retrogression in an already man feet bile fistula anamus or if it is begun immediately after

the establishment of the hiliary fistula will prevent the appearance of the anarma Bahrubin and lex thin were subtout effect on the bile fistula anarma, hot bile acids (sodium taurocholate or sodium gly cocholate) and activated ergosterin (Vitanim B) bad a very distinct effect. The strength of the sodium gly cost completed unusually son numbers of young crylincy to without the strength of the sodium grybinosy to without the sodium granulofilamentos appearate melant of the humatoportete function of the bose marrow and might prove to be of therapeutic table in pertinous anarma. Cholestern on the other hand increased the anarma (increased blood destination)

Since a porotic osteomalacia develops after a few weeks in dogs with a biliary fistula (Recklinghausen Dieterich), it seems logical to assume as the cause a disturbance of absorption of the fat soluble \ itamin D from absence of bile in the intestine (Mueller and Seifert) Dogs with already developed osteomalacia due to a bihary fistula were treated with I stamin D and in other dogs the treatment with Litamin D was begun immediately after the formation of the biliary fistula Since Vitamin D (ergosterin) had not been isolated at that time a 3 per cent solution of activated cholesterin was used Every second day a subcutaneous injection of o or mgm of activated cholesterin was given. The results were judged by morphological examination chemical analysis of the bone and comparison of the regenerative ca pacity of the bone in surgically produced defects It was found that \itamin D has a very distinct effect on osteomalacia due to a biliary fistula even when the osteomalacia was already manifest Vitamin D was able to evert a favorable influence DEMONT (7)

Taylor J Cystic Dilatation of the Common Bile Duct Record of an Example Bril 1 Seg. 1928 xv1 347 Taylor states that the case reported in this

article was apparently the first of its hind to be recognized before operation and successfully treated

surgically

The patient was a woman trenty three vears of see. Since very early childbood she had had at the control of pain in the upper part of the abdomen that radiated to the back hat not to the shoulder. The control of the shoulder she had to be seen to be seen to the shoulder she had tollowed by jumpide. Buttong we well attacks which occurred while the prutent was under observation in the hospital a mass the size of a tenus ability of the she will be seen to be severed and the seen to be seen to

Operation revealed a slightly colarged gall bladder with a short distended cystic duct which emptied into a dilatation of the common duct about the size of a tangerine orange extending from the juncture of the cystic duct to the second part of the duo denum.

The gall bladder was sutured to the stomach a in a cholecystogastrostomy and the abdomen closed with drainage From the aspirated gall bladder contents a pure culture of hacillus coli was obtained

tents a pure culture of hacillus coli was obtained Bile drained freely from the wound until five weeks after the operation when the patient wa dismissed from the hospital. Three and a half

months later she was well
STANLEY H. MINTZER, M.D.

Finney J M T and Finney J M I Jr Resection of the Fancreas 1nn Surg 19 8 lxxxxm

The authors report a case of persistent marked hypoglycamia associated with attacks suggesting insulin shock or histena in which missive resection of the pancreas was done to reduce the number and output of the islands of langerham.

The improvement which resulted shows that the removal of large portions of pancreas is comparatively safe

Hitzrot J M An Unclassified Type of Spieno megaly in Children inn Surg 1928 lvvxviu

Lulargements of the splien in children are not common but bear a close resemblance to the splenomegalies found in adults

The author reports four unusual cases of spleno megaly with anorman inchildren giving the complete case history in eith instance. The outstanding feature of these four eases was a shower of nucleated red cells which appeared immediately after splen ectorum. In one case the nucleated red cells which appeared immediately after splene for fourteen vears after the splenections, the rather than the control of the cases they termined for eight six and two years respectively the nucleated red being from five to civil tumes more numerous than

Nucleated red cells were not present following splenectomy in the other plenomegales that the author has studied or at least were not present in such large numbers. The presence of numerous nucleated red cells in cases resembling utppred von plackers of sease and atypical harmofyte jaunder has been reported but the number was not so large meter?

the nucleated whites

another interesting feature of the author's four cases was the onset of the disease in the econd year of life with the appearance of a curious tint to the skin blush white scienz 'vomiting loss of appetite and weakness

A third feature of note was the lack of growth and development Shortly after the splenectomy the children began to grow normally and to develop

mental traits characteristic of their ages

The pathologist reported that the structural
changes in the spleen were relatively slight and not

character tie of any definite clinical condition
STANLEY II MEYTER M.D.

Whipple A O Reeves R J and Cobb C C A
Typical Hamolytic Anamia with Spieno
megaly in Children Ann Surg 1928 IXXXVIII
260

The splenomegalies associated with animia occur ring in children are especially difficult to classify The one common factor is the apparent dysfunction

of the reticulo-endothelial cells

In some instances this dysfunction is localized in the spleen as in chronic homolytic identities and splenctioniny is apparently curative. In others the reticulor condition of the splency in the liver I jump hodes or bones as well as in the spleen in such cases splenetcomy may be successful. Thrombopeanic purpura belongs in this group. In still another group of cases represented by the Gaucher type of splenomegally the abnormal cells are found in all flour sites but are most numerous in the spleen. These variations in type and degree may account for the difficulty encountered in classifying

the splenomegalies with anzemia in children The authors add two cases to the seven previously reported by other observers in which splenomegali anxmia and jaundice in children was accompanied hy peculiar bone changes and atypical cells of the Gaucher type in the spleen. The bone changes were especially marked in the skull and long bones. The former showed thinning of the inner and outer tables with great thickening of the diploe particularly in the frontal and occipital bones. The long bones presented a streaky appearance due to transverse lines of calcium occurring in generally decalcified The bone changes occurred very early e pecually in the parietal and frontal regions where the cortex was expanded giving the child a mon golian facies The spleen showed general fibrosis especially in the capsule and trabeculæ and peculiar vacuolated cells of the Gaucher type scattered in the allenic pulp. The authors believe these cells were att pical or abnormal reticulo-endothelial cells STANGES II MENTRER M D

Deaver J B and Reimann S P Splenic En largement with Cirrhosis of the Liver Ann Surg 1928 Ixxxvii 355

Well selected early cases of Banti's disease are cured by eplenectomy and late cases are sometimes materially benefited by this operation. The authors report a late case

The spicen is not necessary for the except possibly meetane mergenous when its reservoir of blood is needed. When necessary it can produce red blood seeded. When necessary it can produce red blood collas as well as destroy them. It stores won and is concerned in the formation of the store to an and is concerned in the formation of the control and the store of the sto

The etiology of diseases apparently beginning in the spleen exclusive of timors is unknown Such conditions are characterized by splenomegaly a moderate secondary type of anamis and a group of more or less constant symptoms such as heaver thages jaundice loss of strength and weight sid curhosus of the liver. The marked variations in the symptoms make it difficult to believe that we are dealing with a uniform condition yet of first streat ment is concerned it is perhaps better to conside this to be the case.

Bantas disease is a distinct entity. It has the chir acteristics of a primary splenic disease. It is probably best to consider it due to toxic or pooly defision infectious substances formed in the splene and leading to fibrosis of that organ inhibition of the bormarrow. And accordacy circhosis of the liver.

marrow and secondary cirrhosis of the liver In all cases of splenomegaly the authors first search for a cause of the splenic enlargement li no cause can be found the splenomegaly is diagnored as the primary condition Splenectomy is then coasid ered Transfusion is performed if the homo whim is below so per cent Unless the spleen is enormously enlarged the pedicle can be reached antenorly after the stomach has been drawn well to the right and the gastro splenic omentum has been divided. An, sobesions present are separated and the spleno phrene fold of the perstoneum is divided Thesp'cen is the turned over so that the vessels may be seen in the pedicle The vessels are cut with care rot to tay to the tail of the pancreas I enous occurs is controlled by hot packs after the important vessels have been individually isolated and tied. After the bledies has been controlled the abdominal wall is cloud without the introduction of a drain STANLEY II MENTEER MD

STANLEY IT WENTER

MISCELLANEOUS

Moody R O and an Nuss R G Some Results
of a Study of Roentgenograms of the Abdom
inal Viscera tm J Rong nol 1918 x 348

The authors report the results of a roentgenological study of the normal form position and topography of the liver and spleen in 600 healthy male and 600 bealthy female students Most of the roe tgenograms were taken with the subject erect, in the anatomical position but several hundred were taken with the subject erect and prone and asmaller number with the subject erect and supme. The target was usually centered on the intenliar line a line drawn between the highest points of the that treats but when roentgenograms were taken to show the effects of exercise and of blood transfusion on the size of the spleen it wa cent ed over the spicen With the subjects in the anatomical position the target film distance was 90 cm With the sub jects proue and supine a Bucky diaph ages was used and the target film distance was 72 5 cm The results are shown in tables and illustrations The following conclusions are drawn

Long livers having their lower tip in the pelvic cavity as much as 50 cm below the intenlise line are normal

Sex is a factor affecting the length of the iner
More men than women have long livers

A roentgenographic norm has been established for the size of the spleen in healthy young adults The lower border of the spleen is most commonly found opposite the upper half of the third lumbar

Long spleens having their lower horder on a level with the lower half of the fourth lumbar vertebra are normal. These long spleens are found in persons

with no history of malaria Sex is a factor affecting the length and the shadow width of the spleen More men than women have long spleens and more men than women have a wide soleen shadow

There is strong evidence that in human beings the soleen is considerably larger in the living than

There is some evidence that exercise and the loss of blood given for transfusion decreases the size of ADOLPH HARTUNG M D the spleen in man

Hunter W E Diaphragmatic Hernia Califorma

& West Med 1918 XXIX 227 Hunter describes three types of diaphragmatic

hernia and suggests the following classification

1 Congenital herning A I also herniss without a sac (from 80 to 90 per

cent of reported cases)

B True hernis with a sac (from 10 to oper cent of reported cases) 1 Acquired herman

A Herniz which develop through congenitally weak areas in the diaphragm. These weak spots may be caused by (1) defective development of the diaphragm. (2) disease within the diaphragm. itself or secondary to an abscess above or below the diaphragm or (3) blows which mure the musculature the hernix occurring immediately

or at a much later period B Blows which tear the disphragm from its attach ment to the chest wall. This condition is not a hernia but an evisceration or evulsion of the

diaphragm

3 Eventration This is not hermia but a relaxation or weakness of one side of the diaphragm In the ten cases which have been reported in the interature at occurred on the rt ht side

A Congenital B Acquired

Eventration may result from (x) immature development of the lungs which leaves the diaphragm

high (2) developmental injury to the phrenic nerve causing relaxation or (3) improper development of the musculature of the diaphragm The condition is often associated with other developmental defects

Diaphragmatic hernia is more common than is generally believed and is often overlooked by the physician or surgeon The diagnosis is usually made hy the roentgenologist or at autopsy

HERMAN H HUBER M D

Diaphraematic Hernia With a Glies R. G. Report of Cases Texas State J M 1928 XXIV 418

Diaphragmatic hernia is diagnosed more fre quently since the use of the \ ray There are two main varieties the congenital and the acquired The congenital is due to a defect in the development of the diaphragm while the acquired is due to The former is usually present at buth The latter may develop immediately after an injury or not until months or even years later

Both types occur most frequently on the left side A large percentage of acquired hernix follow stah

wounds of the chest

The signs and symptoms of diaphragmatic hernia are not pathognomonic. They depend largely upon the size of the opening in the diaphragm the degree of constriction and the organs involved. The subsective symptoms range from vague discomfort to symptoms suggesting gall hladder disease or ulcer In some cases there is interference with gastric function There may be also interference with

respiration The most constant symptoms are pain in the epigastrium immediately after eating paroxysms of smothering without apparent cause and comiting

without premonition \ ray examination is practically always necessary to establish the diagnosis At times even the roent gen findings may lead to erroneous conclusions as

temporary spontaneous reduction may occur the examination then being negative double diaphrag matic hernia may exist and only one hernia may be demonstrated roentgenologically or only solid organs may he herniated Disphragmatic herma must be differentiated from

eventration of the diaphragm diverticulum of the cardiac end of the atomach and diverticulum of the lower end of the esophagus

ANTHONY F SAVA M D

GYNECOLOGY

UTERUS

Grant W W An Improved Technique in the Operations of Colporrhaphy and the Watkins Interposition Operation To Best Surg Ass

In the modified technique employed by Grant in colporrhaphy and the Watkins interposition opera tion the bladder is distended with warm water in stead of being evacuated. In pronounced evatocele and in descent of the uterus and procidentia follow ing lacerations due to childbirth the bladder is usually found prolapsed in the pocket of the prolapsed anterior vaginal wall. In colpotomy and the Watkins interposition operation as they are usually performed the primary procedure is exactly the Same

In the improved technique that is suggested by Grant the long anteroposterior incision of the anterior vaginal wall in common use is discarded in both To get the base of the bladder out of the danger zone Grant conceived the idea of filling it with warm nater This procedure has proved

entirely antisfactory It is followed by transverse incision of the vaginal wall just heneath the posterior urethra by one hite with the acissors entering at once the loose con nective tusue apace between the bladder and the

vazina

The dissection is completed to any depth or width desired with the fingers and curved blunt pointed seissors or with gauze. Grant has found that hy this procedure the dissection can be completed to the base of the bladder with extreme rapidity ease

and safety In colporrhaphy the oval section of the vagina is completed by two anteroposterior lateral incisions (instead of three as in the usual method) and the denuded area is closed with a chromic gut con tinuous suture. In the Watkins procedure, the an terror cul-de-sac is opened at the cervicos aginal line the reflected peratoneum is penetrated with the finger and blunt pointed scissors and the handle of the instrument is then spread to make the opening of the peritoneum sufficiently large to accommodate the uterus

The fundus uten is grasped as usual with tenac ula and pulled into the pocket that has already been prepared between the hladder and vagina. By this method the integrity of the vaginal wall is fully preserved with no risk to the healing process men dent to a long vaginal incision having the weight and pressure of the uterus upon it. The fundas is fixed by non absorbable sutures to the vaginal in cision or to the subpubic tissues as recently advised by Kelly

Ahumada J C and Prestini O Tuberculosis of the Cervix of the Uterus (Tuberculosis del crello del atero) Rev argent de obst y gince 1928 ml. 74

The authors report a case of tuberculosu of the cerux successfully treated with radium Ao other tuberculous lesion could be found

Tuberculosis confined to the cervix is much rater than tuberculous endometritis or salpingitis. It is often confused with cancer of the cervix but the tuberculous lesion is more clastic and less frishle this the cancerous and is usually covered by a mr coppra tent fluid which is very diffe ent from the grumous purulent exudate of an epithelioms Urerray R. MERKER M.D.

Cullen T S Uterine Harmorrhage and Its Treat ment Canadian M Ass J 1928 xix 411

Conditions causing uterine harmorrhage fall into two groups (1) those dependent upon a recent pregnancy and (2) those independent of a recent pregnancy This classification simplifies the tody

Uterine hamorrhage dependent upon a recent pregnancy occurs with premature separation of the placenta retained membranes hydatidiform mole chorronepsthelioma tubal pregnancy and pregnancy in one horn of a hicornate uterus. The author discusses the history the physical findings and the importance of microscopic diagnosis of ma endl expelled from the uterus. The diagnosis of hidstidiform mole is materially helped by the palpation of hilateral cystic tumors on either aide of a rap di enlarging uterus (multilocular lutein nyanan cista) These cysts occur only with hydatidiorm mos and chononepithelioma and disappear spontaneously on removal of the mole or the chononepitheliuma. The histological pictures of mole and choron epithehoma are much alike Coagulation herro's of tissue fining the uterus is strong presumptive evidence of malignancy Bluish discoloration around the umbilious indicates the presence of free blood in the pentoneal cavity, and in women this is often the result of haroorrhage from an extra utenue

pregnancy Utenne hamorrhage occurring independently of a recent pregnancy may be due to (1) a consuto tional condition (2) benign changes in the mucosa of the cervix and uterus (3) malign at changes (4) uterine tumors or (5) disease of the addera Under benign changes causing bleeding the author hets cervical and uterine polyps hyperplasis of the endometrium and senile atrophic changes in the uterine and cervical mucosa. Malignant thanges anclude aquamous cell carcinoma and adenocard noma of the cervix adenocarcinoma of the body of the uterus (squamous cell carcinoma is rate) and sarcoma of the endometrium Cullen stresses the

importance of microscopic diagnosis as an index to the proper treatment of these conditions. Uterine tumors causing hæmorrhage are myomata adenomyomata and sarcomata Myomata are common A submucous myoma 2 or 3 cm in diameter projecting into the uterine cavity may cause severe bleeding. Adenomyomata generally cause profuse and prolonged menstruation but no intermenstrual bleeding Sarcomata are relatively rare. In 1 or 2 per cent of the cases they are associated with uterine myomata. On section they are readily differentiated from the latter hy their homogeneous pork like non striated appearance. They are readily broken up with the finger. It is important to remember the association of utering tumors with cancer. In the author's cases of myoma cancer of the cerus was found in 1 per cent and cancer of the lundus in 2

Disease of the tubes or ovaries is not an infrequent cause of uterine bleeding and may be difficult to differentiate from extra uterine preparate. In conclusion Cullen says that the treatment of

utenne bemorrhage will be improved as the etiology becomes better known ALICE F MAXWELL, M D Sampson J A Endometriosis Following Satem

gectomy im J Obst & Gy 100 1928 xvi 461

The evidence indicating that peritonical endo metriosis at times arises from the implantation of mudlenan epithelium escaping through or from the tubes may be summarized as follows

1 Peritonical endometriosis occurs in women and

not in men
2 It is an acquired lesion and usually (possibly

always) develops during menstrual life and most frequently in the latter half of that life

3 Experiments in the autotransplantation of bits of muclerian mucosa in the lower animals by Jacobson and others showed that such mucosa may be successfully transplanted to the peritoneum of these animals.

4 The study of postoperative endometriosis in women shows (or at least suggests) that tubal and uterine epithelium may be transplanted by the

surgeon.

- 5 The study of endometrial tissue in the ovaries suggests that this tissue may spread to the peri-toneum by the implantation of enthelium which escapes from the ovary both through the perforation (menticual) of endometrial cysts and also the men strual reaction of endometrial tissue on the surface of the ovary. This evidence is purely circumstantial but is most convincing
- 6 I entoneal endometriosis often occurs without any discernible endometrial tissue in the ovaries. Therefore the latter is not essential for the develop-

ment of the peritoneal lesion
7 One of the outstanding features in cases of

pentoneal endometriosis is patiency of the tubes. In 347 cases of peritoneal lessons containing endome trium like tissue (other than postoperative cases) which were seen in the last six years both tubes

appeared to be patent in 330. Unlateral humato salpinx mas present in 3 and bilateral humatosal pinx in 4. Patent tubes apparently increase the incidence of peritoneal endometrious and the relatively large aumber of patients with humatosalpinx must be of some significance. In the cases with occlusion of both tubes the peritoneal lessions might have been present prior to the closure of the fimbatted ends of the tubes.

3 The peritoneal lesions often occur in situations and under conditions indicating their origin from material escaping from or through the patent tubes

- 9 The study reported in this article shows that after salpingectomy the traumatized mucos of the tubal stump may invade not only the stump but also any structure adjacent or adherent to it and give rise to the leasons of peritoneal endometross including typical endometrial crists or harmatomata of the ovary.
- 10 These studies show also that the misplaced tubal mucosa may assume the structure of the uterine mucosa. Therefore many of the endome trium like lesions of peritonical endometriosis may be of tubal rather than uterine origin.

11 It has been shown that bits of the uterine mucosa set free by curettage may be carried by blood escaping from the uterine cavity into the tubes

12 It has been shown also that during men struction blood may escape from the uterine cavity into the tubes and that this blood may contain bits of uterine mucosa

13 There is evidence indicating that bits of uterine mucosa may escape into the venous circulation of the uterus during menstruction and become implanted in the venous singuises of the uterine wall

i4. Since peritoncal endometrious develops during the mensitual fire of somen and since the men strual reaction often causes a dissemination of hits of uterine mucosa and possibly also of the tubal mucosa mensituation may be an important factor in the dissemination of muellerian epithelium into the peritoncal cavity.

15 Tubal epithelium might readily escape from the tubal fimbrize independently of menstruation

16 The evidence thus far obtained shows that peritoneal endometriosis may arise from the implantation of both tubal and uterine epithelium

17 The present studies support this theory and emphasize the origin of pentioneal endometriosis from the implantation of tubal epithelium but do not exclude its origin from other sources

E L CORNELL, M D

Ward G G
 Radium Therapy of Carcinoma of the Cevix Utert Bri V J 1928 11 527
 Wuray E F
 Radium in the Treatment of Carcinoma Cervicis and Intractable Menorrhagia Brit St J 1923 n 600

Belore the discovery of radium by Mme Curie cancer of the cervix uter, was treated by local de struction of the carcinomatous tissue by cauteriza

tion or operation. The question today is Can we with radium obtain the same result in cancer of the cervix as can be obtained by the Wertheim opera tion without the high mortality of that operation? WARD reports the results obtained with radium in the Woman's Hospital of New York

The armamentarium consists of about 280 mgm of the salt in tubes and needles and the average int tial dose has been from 2 400 to 4 200 mgm hrs Experience has shown that the employment of mas sive doses cannot give any better results than the intelligent application and re application of smaller doses In 50 per cent of the cases re irradiation has been done and in many of the cases with a successful outcome three or more irradiations have been given The following tables summarize the results

TABLE I FIVE YEAR END RESULTS (MAY 1928) OF RADIUM TREATMENT OF CARCINOMA OF THE CERVIX UTERI AT THE WOM IN S HOSPITAL NEW YORK

| | Pite is t 1d | P to to | Pti t Ivive | | |
|----------------|----------------------------------------------|---------|-------------|--------|------------------|
| Type it e | | | Α. | f thei | f thos traced |
| Clas s dum t d | E34 | 10 | 3 | 1.0 | , |
| 1 41 | <u>' </u> | | 77 | 16.1 | . 55 |

Presery m (all by o 44 pe es t.

TABLE II COMPARATIVE FIVE YEAR RESULTS AND PRIMARY MORTALITY OF RADICAL OPERATIVE AND RADIOLOGICAL TREATMENT IN TOTAL CASES OF DARCINOMA OF THE CERTIX

| | l ing | an Calif |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|
| All choice Ope t t tms t B d lose ltr tms t | 3 3 | 7 2 |
| Ope to the test R display to the tR display to the transfer to the t | 3. ⁴ | |
| Frm Hyman R pot 97 | | |

TABLE III COMPARATIVE FIVE YEAR RESULTS IN OPERABLE CASES OF CARCINOMA OF THE CERVIX

. . .

| | 7 |
|----------------------------------------------|----------------------|
| Allelmen Of the tre treest R d great to of | 35 6 34 9 64 4 |
| R di mb mm t Koman Hospital Clin My q 8 | 33 |
| Forn H yman Report My 97 | |

MURRAY reports a study of over 200 cases of car cinoma of the cervix and intractable menorrhagia treated with radium since January 1926 and 130 cases in which a Wertheim operation was done Radium bromide (100 mgm) was applied for twenty four hours to the external os After the application the patient was kept at rest for fourteen days 5 gr of potassium iodide were given three times daily

and a douche was given daily The after results in 38 operable cases treated by the radical operation alone are compared with those obtained in a similar number of cases in which the radical operation was done after a preliminary application of radium. The lapsed time was three years in the first group and one year in the second group The results were as follows

| Operation only | Per cent |
|-------------------------|----------|
| Alive and well | 60 |
| Operative deaths | 5 |
| Recurrence | 30 |
| Death from other causes | s |
| Radium and operation | |
| Alive and well | 44 |
| Operative deaths | 16 |
| Recurrence | 31 |
| Death from other causes | 0 |

These results appear most unfavorable to radium hut their correct interpretation is that by the us of radium at is now possible to include in the ope able group cases in which in the earl er days, the surgeon would have hesitated to operate

In mop rable cases radium undoubtedly improves the local condition After the irradiation there is t sally a smoothing and ultimately a contraction of the ulcerated area. The patient reports that see feels better and that the bleeding and even the discharge has ceased. The average duration of he does not appear to be greatly influenced in the majority of cases Of 23 patients who were con sidered inoperable in 1026 and were treated with radium alone 4 were alive in July 19 8 but 3 of them are in poor health Of 24 pat ents who were regarded as inoperable in 1927 17 are dead 5 are

dying and 2 show no definite change Murray concludes that radium treatment is safet than hysterectomy gives almost as certain results as operation and is the preferable form of treatment in such cases The advantage to the patient in every respect is obvious Radium irradiation i especially indicated to the cases of patients suffering from disease of the heart lungs or kidneys in which prolonged anasthesia and a major operation should be avoided It is the ideal treatment for extreme y nervous and elderly patients. It might be of use also in producing the artificial menopause in patients suffering from pathological blood disease with a view to conserving the blood supply HARRY TO FRIE, M.D.

ADNEXAL AND PERIUTERINE CONDITIONS

Novak E and Everett H S Cyclical and Other Variations in the Tubal Epithelium Am J Obst & Gynet 1928 IVI 499

While the tubal mucosa does not participate in the bleeding of the menstrual process its epithelium exhibits a definite cyclical change which is com parabl to that of the endometrum but not nearly so conspicuous as the latter consisting more in microscopic changes in the cells rather than in the grosser changes in pattern seen in the endometrum The authors conclusions from examinations of the tubes in 136 cases in the majority of which the endometrium also was available for study are as

I The tubal epithelium consists of two chief types of cells the ciliated and the non ciliated. The latter are often spoken of as secretory cells A

third type the peg cells (Stiftebenzellen Schaltzellen) have also been described but it is probable that these represent only a phase of the

non calcated cells

2 In the interval phase the epithelium is uni formly tall the caliated cells being broad with rounded nuclei near the free margin while the non chated cells are narrower with nuclei more deenly placed and taking a deeper stain

3 In the premenstrual phase the cabated cells become lower so that the secretory cells project beyond them giving the enithelial margin a ragged uneven appearance The secretory cells show a bulbous hermation into the lumen of the tube In spate of the great loss of cells matoses are rarely

seen in the tubal epithelium

4 During the stage of menstruction the pre menstrual changes are carried farther the epithelium becoming quite low. The ciliated cells especially remain broad and low but the secretory cells also having been emptied of their cytoplasm are much lessened in beight the nuclei often being quite bare of cytoplasm Peg cells are numerous and their appearance and distribution suggest that they are merely emptied secretory cells

The postmenstrual phase is characterized first by a low epithelium which quite rapidly increases in height so that by the third or fourth day after menstruation it is often almost as tall as during the interval phase. The cells are narrow closely placed and after the first day or so of uniform beight

6 During pregnancy the epithelium becomes even lower than in the menstrual stage and in the later stages it may become almost flat in many places Secretory changes are not seen at this time

7. Cilia can be demonstrated in all stages espe tially by the examination of fresh tissues by the technique described. They are found also in the tuhal epithelium of young children and of women many years beyond the menopause. This suggests that they must have some other function than that of assisting in the propul ion of the ovum Perhaps as has been suggested by flartman their chief rôle is that of keeping the tubal lumen cleansed of

ł

There is a yet no state of the secretion at this far been unsuccessful without gloogen have thus far been unsuccessful There is as yet no nor mucin can be demonstrated There is as yet no positive knowledge regarding the significance of this tuhal secretion

9 The prepubertal tubal epithelium is rather low but shows both chief types of cells. Cilia however are very sparse and are usually not seen at all in

fetal or very early postnatal life

to The epithelium of the postmenopausal tube may remain quite high for a urprisingly long time

perhaps a number of years after the cessation of menstruation Cilia also may persist for many years Sooner or later however the tubal folds become rounded and of fibrous appearance the epithelium becomes low or even quite flat and the cilia of course disappear

11 The tuhal epithelium of tubes removed from patients suffering from hyperplasia of the endo metrum was studied because the latter condition is unquestionably associated with a functional disturb ance of the ovaries Characteristically the epithehum was found to be high uniform and compact with parrow cells most of which were ciliated There was no evidence of secretory change This bears out the view for which there is other evidence that the functional disturbance consists of an excess or persistence of the folliele stimulus with absence

of the corpus luteum influence

12 The comparison of the tubal cycle in women with that of the lower animals like the comparative study of the uterine and ovarian cycles emphasizes the important differences chronological and histological which exist For example the estrus tube of the rodent resembles not the menstrual or pre menstrual tube of the human being but the interval Since cestrus in the lower animals is due undoubtedly to the follicle hormone it seems clear that in the buman being the maximum of follicle influence is reached during the interval phase and that the later changes are due to the corpus luteum influence To bear this out the picture in the animal tube which resembles the buman premenstrual tube is that seen in the metestrum during which stage the corpus luteum apparently plays the dominating rôle

F L CORNELL M D

Williams J W Therapeutic Sterilization J Am M Ass 1018 XC 1217

The author reports 118 sterrizations performed in 33 000 obstetrical cases admitted to the Johns Hopkins Hospital The sterilization was an essen tial feature of the intervention. In other cases not included in this series it was unavoidably associated with an operation such as Porro section for uterine infection hysterectomy for ruptured uterus or uteroplacental apoplexy salpingectomy or oophorectomy (or both) for adnexal da ease etc

Sterdization may be effected by (1) operations on the ovaries such as castration or burying of the ovaries under the pentoneum (2) operations on the tubes (3) operations on the uterus or (4) the use of the \ ray Castration is undesirable and burying of the ovaries is uncertain. The \ ray is uncertain when permanent sterility is desired and when it is used for temporary sterility may damage the ova so that serious fetal abnormality may result when an ovum 15 fertilized

Hence for the production of permanent stenlity we are restricted to uterine or tubal operations Of these the only reliable procedures are hysterec

tomy (preferably supravaginal) and wedge shaped cornual excision of the proximal ends of the tubes with careful closure of the uterine wound with fine sutures These operations may be performed on non pregnant women pregnant women or following

cæsarean section at or near term

Of the 118 somes shose cases are reveneed, 66 were stendized at term (34 by radical section and 33 by conservative section plus tabal sternization) 35 were operated upon rior to viability (2, by histerictomy and 18 by histerictomy plus tabal sternization) are related by hysterictomy and 3 by this teritomy plus tabal sternization and 7, were ron pregnant (4 treated by hysterictomy and 3 by tubal sternization) Of the 66 ternizations at term 48 were performed on account of marked disproportion necessiting representation of marked disproportion of disproportion of marked disproportion of dis

Pathological conditions in the series necessitating sterilisation were chronic nephritis (58 cises 9 at term and 19 before valatifity serious heart disease term and 19 before valatifity serious heart disease the end of the puerperunic tuberollogical and the end of the puerperunic tuberollogical control to the end of the puerperunic tuberollogical for the case of a total for the puerperunic tuberollogical for the puerperunic tuberollogical for the puerperunic excession of the remaining tube chiefly on account of persistent ab dogunal pain throughout the pregnancy

In the past seven years the nuthor has performed sterilizing operations 15 times for social functions and 4 times for social indications. He realizes that the validity of such indications may be questioned but believes that in these few cases selected from a much larger number studied in collaboration with the payedistric and social welfare departments.

the indications were definite. In Williams opasion the prevention of conreption is justified by chronic nephritis tuberculous serous heart of e.e. and frequent childraning in the case series and important childraning in the case certain but the best is the use of the hearth or the occlusive pessary. Absolute continuence so course the only thoroughly reliable method but in most cases is impossible of realization and may lead to mainful unhappiness. Advice regarding contracept the method is the method in the contract of th

Laqueur E and De Jongh S E A Female (Sexual) Hormone J Am M A: 1928 xts 1169

The authors have isolated a water soluble non touc hormone which they called menformen Its hological and biochemical properties are summar ized as follows 1 It produces æstrus in castrated rats and mine 2 Experimentally it increases the size of the five nile interus vaging and tubes

3 It induces growth of the mammary glinds in young females and males. When small does no given only the glandular tasse grows large does develop the external parts fat tissue and mammiles. 4 It increases metabolism only in tast aid it-

males
5 It has an antimasculine influence on the teste,
5 It has an antimasculine influence on the teste,
6 penns seminal vesicles and prostate. In yought
6 animals it retard growth and in adult males a
6 causes a considerable reduction in the sate of the
6 testes.

6 It is non force over long penods of time
2 It is resistant to heat and the action of illalic

acids ferments and reduring agents but is suserptible to oxidizing agents

Menformon occurs in and may be prepared from normal organs and fluids (placenta to tes follower fluid animotic fluid and urine)

It is marketed as a solution containing so left per cubic centimeter. A unit is the mouth unit VI is the smallest quantitie which divided use for dozes in forty eight hours produce a symptome can parable with those of normal catture in 7 per cast of castrated nince into which it is impeted.

The authors report only experiment I data. The therapeutic efficacy of menformon is clausal case is not discussed.

Charles F. Do Box M.D.

Allen E Pratt J P Newell Q U and Bland
L Recovery of Human Over from the United
Tubes Time of Ovulation in the Mentions
Cycle J tm Jl ts 1928 zci 1018

Relatively little is known of the human over from just before the time of evulation until after the time of implantation of the developing emitted in the uterus Consequently the time of avulation m the menstrual cycle in woman has been computed chiefly from the condition of the corpus lateum rather than from the finding of ova in the tuber In an attempt to fill the gap in our knowledge of early human embryology the authors planned a cooperative investigation with the following object tives (4) the reco ers of human ova from the uter me tubes (2) the correlation of their condition with the men trual history and the stage of development of the early corpora lutes from which the e ova had been extruded and (3) a continuan e of the quant tative analyses of the amount of evarian hormone in tissues of the human ovary

Seven human ova were recovered from these The first events was obtained from a some above appeared upon a some above appeared upon a tent of the previous mease). It appeared to be in good condition and westered to be in good condition and westered to some in six greatest dammet The outlined the outer membrane (gona pellucida) were cheer wishle. The eggs was slightly out and units part The yolk was a very light yellow. The companies them of this own had a first partial gona the town of this own had a first partial gona to the control of the companies town of this own had a first partial gona to the control of the companies town of this own had a first partial gona to the control of the companies town of this own had a first partial gona to the control of the con

was visible on the surface of the ovary When opened the corpus luteum was found to be thin walled and to have a central cavity filled with blood tinged straw colored fluid

Among the other cases in which ova were collected there was one case in which an ovum was obtained from e ch tube Each ovary contained an early cor ous luteum. Another case illustrated the internal migration of the ovum from the left ovary to the

nght tube Some of the observations made during this study indicate that menstruation without ovulation which is so common in the monkey must be recognized as occurring in woman HARL W. FINE M D.

MISCELLANEOUS

Glies A E The Diagnosis and Treatment of Sterility Bent M J 1928 11 647
sdike S The Diagnosis and Treatment of
Sterility in Women Bent M J 1928 11 648 Forsdike S

GIEES states that in the study of sterility in the female the general and sexual development of the noman and the possibility of normal intercourse of effectual reception of spermatozoa at the os exter num of the passage of spermatozoa through the

tubes and of normal development of the fertilized ovum in the uterus must be considered. He dis cusses the typical pinhole os marked retroversion and acute anteflexion of the uterus and the character

of the vaginal discharge

For cases of under development Ciles recommends marriage and the administration of thyroid and ovarian products Thyroid extract can quite well be given by mouth but the ovarian extract should be administered by hypodermic injection For faulty metabolism with pronounced obesity Giles advises reduction of weight supplemented by the administra tion of thy roid Difficulty in intercourse should be remedied by digital dilatation under anasthesia or a plastic operation. In some cases artificial insemina tion may be advi able. When there is hindrance to the entry of spermatozon into the cervical canal dilatation of the cervical canal should be carried out A glass intra utenne stem pessary should be intro duced and retroversion or retroflexion corrected Discharges due to adenomatous disease of the vaga nal aspect of the cervix (erosion) or to endometritis e pecially of the cervical type require curettage Tubal obstruction can be overcome only by surgery

FORSDIKE divides the causes of sterrity into the congenital the acquired and the functional From the elinician's point of view the cases may be da vided on physical examination into two groups (1) those in which gross lesions are present and (2) those in which there is no gross lesion or no lesion sufficient to account for the condition. This article is limited to eases of the second group

Twenty five per cent of chikless marriages are due to the condition of the husband The semen of 46 of 146 men whose wives came under the author a care for stembty was found to be defective

The study of a case of sterility in the female should begin with a search for spermatozoa in the vagina and the cervix following coitus

Forsdike describes the exploration of the uterus by dilatation of the cervical canal and inflation of the uterus and tubes with gas or air Without anasthesia he uses a pressure of 300 mm Hg provided the patient does not complain. If that pres sure is attained and no air passes the tubes are definitely closed. When anaesthesia is induced the pressure never exceeds 200 mm. Hg as the patient cannot warn of tension pain With anasthesia and the abdomen open Forsdike allows the pressure to en up to 300 mm Hg If the test is positive there is no doubt about the patency of the tubes but if it to negative it may mean that the tubes are tem porarily blocked by kinking Inflation shows only whether the tubes are patent or closed. It does not reveal the site of closure. I lastic operations on the narrow part of the tube are not justified. In cases of obstruction of the tube at the fimbriated extremity operation was successful in 45 per cent but success ful results were obtained in only 10 per cent. The most favorable cases are those in which the fimbria can be sayed. The ovary should be freed and loosely fixed in the mouth of the new ostrum. When an incision is necessary to establish a new ostium the serous coat should be undercut so that the suture car ries the peritoneal edge over the raw surface thus preventing the formation of adhesions

The \ ray examination of the uterus and tubes is facilitated by the use of lipsodol. Lipsodol has no ill effect upon the pentoneum. The technique of its use is described. In order to obtain the fullest in formation regarding the tubes an oblique roentgenogram should also be taken at the time of injection when the tube is in the uterus A second roentgenogram made a day or two after the examination will show the inpedel in the peritoneal cavity. I iniedel is absorbed and disappears from the peritoneal cavity in from seven to ten days. It disappears from the uterus by gravitation in one or two days but when injected into closed tubes it may produce a shadow for several months. When lipsodol is being used as a therapeutic agent 5 ccm is all that is necessary a that quantity is sufficient to fill both

tubes and the uterus

Of a number of apparently normal women sub sected to inflation of the uterus and tubes 31 per cent became pregnant subsequently. Seven (ra per cent) of the pregnancies ensued so closely upon the inflation that the inflation and conception may be considered in the relation hip of cause and effect

Lipiodol injection in sixty seven cases showed that in twenty ix cases the tubes were apparently do ed

When the patient remains sterile for three months after inflation showing the tubes to be patent Forsdike makes an examination with hipsodol and delays further procedures for nine months. When infittion shows the tubes to be closed he attempts a plastic operation on the tubes if in investigation

with hosodol the obstruction is found to be in the ampulla If the steribty still persists after all this has been done only the ovaries remain to be con sidered These organs should be examined by abdominal operation

The conditions in the overies which may be ex pected to hinder conception are (1) a thickened tunica albuginea () cystic ovaries (3) cysts of one or both ovaries and (4) veils of peritoneum which completely shut off the ovaries from the peritoneal cavity Incision and scarification of the thickened tunica is likely to induce a more extended injection with the formation of additional adhesions and resection of a cystic ovary merely increa es the fibrous tissue already present. Cysts of one or both ovaries in contradistinction to existic ovaries exert a restric tive influence upon successful ovulation Forsdike has operated upon six cases of small umlateral cysts in which the duration of sterility was three five five six seven and seven years respectively. In four, pregnancy resulted within three months

Forsdike helieves that the condition usually described as incompatibility or selective steril its is a combined relative steribty in which the fertility of both the male and the female is low

ROLAND S CROY M D

Polak J O and Tollelson D G What Can We Learn from a Study of Mortalities? Am J Obst & Gynec 1928 XVI 600

The authors have analyzed the mortality in the Long Island College Hospital in the past five years The total mortality among 4 270 cases admitted was 118 deaths Forty three of the deaths occurred in cases not treated surgically and therefore are not considered in the discussion. In the 3 125 cases operated upon there were 95 deaths. The fatal usue can be attributed to one of the following

causes (r) an omission in the history or the physical or laboratory examinations or misinterpretation of the findings (2) anadequate pre-operative prepara tion (3) cardiac embarrassment caused by the use of the high Trendelenburg position in cases with a high blood pressure (a) shock caused by the prolonged use of the Trendelenburg position in cast with a low blood pre sure (5) too much surgers at one time (6) too great prolongation of the opention (7) operation performed following prol aged subacute or chronic infection with a leucocytous or leucopænia or (8) operation in the presente of

active infection The gross operative mortality in the five jest period was 2 9 per cent. The fatal cases are divided as follows

I Cases of malignancy in which the abdumen was opened to confirm the diagnosis and an interhie condition was found In this group there were 25 cases 2 Finergency cases This group included 3

cases of acute appendicates with diffuse pente Li. Er cases of sepais 2 cases of gall bladder disease and I case of ruptured ovarian c) st

3 Cases of elective operation In this group there were 52 cases Of 2 patients subjected to a

vaginal operation I died from intercurrent presmonta two weeks later and the other from acute suppurative peritonitis following treatment with radium The authors state that a review such as is here

presented is a sad commentary on surgest puts ment and surgical care. They corclade that not sufficient attention is given to the suggestive find ings developed in pre operative stud, and em phasize the fact that surgical judgment ca be de veloped only by pathological study of the him-E. L. CORNELL M.D.

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Siddall A C. The Hormone Test for Pregnancy Report II J Am M Ass 1928 xc1 279

The hormone test for pregnancy is hased on the effect of the injection of gravid female blood serum on the uterus and ovaries of white female mice The total weight of the mouse divided by the weight of the uterus and ovaries gives a ratio which serves as an index If the ratio is above 400 the test is negative for pregnancy whereas if the ratio is less than 400 the test is positive

Sexually immature mice react differently than sexually mature muce. In the mature animal there is an enlargement of the ovary associated with the formation of corpus luteum In the immature ao mal

there is an enlargement of the uterus

The author believes that uterine enlargement is caused by an ovarian or a placental bormone The ovarian enlargement which occurs in the mature animal is probably due to the anterior pituitary bormone

In 130 cases in which the hormone test for pres nancy was used there were only 6 erroneous results This test has been employed also for the quali tative determination of the potency of commercial liquid extracts of ovary and anterior lobe of the pituitary gland CARL II DAVIS M D

Lobre F and Dalsace J Six New Cases of Pred nancy Following Exploration of the Tubea by the Injection of Lipiodol (Six nouvelles grossesses consécutive à des explorations tubaires par injection de I prodol) Bull Soc dobst et de gynte de Par 1028 XVII 612

The authors add six new cases of pregnancy fol lowing the injection of todized oil to two cases preva ously reported That the pregnancies were oot merely coincident with the exploration of the tubes 19 evident from the fact that the patients had re mained sterile after other methods of treatment The

case records were briefly ns follows

Case 1 The patient was thirty four years of age Menstruation was established at the age of fifteen years It was painful but otherwie normal. The patient had been married eight years but bad oever been pregnant Several dilatations and a tracheloplasty failed to cure the sterility Lipiodol injection showed the right tube to be obliterated and the feft tabe to be permeable. The patient hecame pregnant four months after the examination

Case 2 The patient was thirty years of age Meo struction was established at the age of filteen years It was painful but otherwise normal The patient had been married for two years and had never been pregnant An insuffiction in 1927 was negative Ao

miection of lipsodol in 1928 demonstrated permea hibty of both tubes Pregnancy began two months

after the examination

Case 3 The patient was a woman twenty five years of age. She had been married one year and had never been pregnant Six attempts at insufflation failed to demonstrate permeability of the tubes. An injection of hosodol revealed a small uterus in back ward and lateral displacement. The tubes were short and slender but patent Pregnancy occurred two mooths later

Case 4 The patient was thirty years of age She had been married eight years but had never been pregnant Menstruation was entirely normal Di latations and pelvic massage were without effect on the steribty. The injection of lipiodol showed extreme lateral flexion of the uterus and permeability of both tubes. The nationt became precuant two

months later Case 5 The patient was thirty six years old and had been married since 1020 Menstruation was normal During 1023 two spontaneous abortions occurred in the sixth week. In 1924 the patient had a full term normal pregnancy but she had not been pregnant since then Injection showed both tubes to be very long but permeable. Two months later an abortion occurred

Case 6 The patient was thirty four years old and had been married oine years. Menstruation was normal Abortions occurred in 1022 and 1027 in the sixth week and fifth month respectively Explora tion with lipsodol was performed to determine the cause of the abortions. The uterus was markedly flexed to the left and retroverted. The right tube was greatly elongated and the left tube short and scarcely permeable. Pregnancy occurred the next month after the examination

Io Cases 2 and 3 lipsodol injection demonstrated permeability of the tubes which could not he ob tained by insufflation Practicing insufflation and lipiodol injection on the same patients the authors found seven who were negative to insuffiction but

positive to hprodol

In Cases a and 4 the tubes which were at first blocked became permeable after a pressure of 30 mm of mercucy had been maintained for from twenty to thirty minutes During the course of the procedure colic nausea and faintness frequently occur but if the pressure is controlled by an accurate ma nometer these symptoms should not interrupt the mjectioo

The daogers of the method are slight In 150 cases there were no accidents. The incidence of successful results in the treatment of sterility cannot be deter mined with certainty In 63 private cases treated in this way there were 7 pregnancies whereas in 52 hos

pital cases there was only a pregnancy. It is possible however that some of the latter group of patients were referred to the maternity wards of the hospi tal and thereby escaped observation

ALBERT F DE GROAT M D

Frey E and Lardi F Heart Distase and Preg nancy and Abdominal Casarean Section under Local Anæsthesia in Cases of Heart Disease (Herzfehler und Schwangershaft und d e abdominale Schnittentbindung in Lokalanaesthesie bei Herz fehler) Zische f Gel e til u Gynaet 1923 xci 1 1

On the basis of the literature the authors first discuss the influence of pregnancy and labor on the normal and diseased heart and the prognosis and treatment of heart disease in pregnancy. They then report the experience of the Zunch choic in a coodeliveries occurring in the period from 1020 to 10 6 among these cases there were 74 of pregnancy com plicated by heart discuse

In 1 cases the pregnancy was interrupted thera poutically during the first half in 43 cases delivery occurred spontaneously by the natural route at term and in 19 cases on arean section was done under local anasthesia in the second half of preg

nancy or during labor

The cases in which the programmy was interrupted included a cases of mitral insufficiency 2 cases of metral stenoses plus ensufficience e case of metral stenosis and 6 cases of other heart lesions. In 10 of these 12 cases abdominal casarean section with tubal steribzation was done under local anesthesia All of the women except a were discharged with compensation and free from symptoms

The cases in which delivery occurred spontage eously included to with mittal insufficiency as with mitral insufficiency plus stenosis 6 with mitral at nosts and 5 with other heart lesions. In 6 cases there were slight signs of decompensation. All 43 mothers left the clinic with full compensation and The favorable course in the without symptoms cases with mitral stenosis was noteworthy

The cases of abdominal delivery included 8 with uncomplicated mitral stenosis 5 with mitral stenosis plus insufficiency 2 with acrtic ir sufficiency plus mitral stenosis a with mitral insufficiency and a with congenital heart disease. Signs of decompensation were present in 13 of these 10 cases. All of the women had complete compensation after the puerperium and were without symptoms when dis-

charged Attention is called to the very high percentage of mitral stenoses among the lesions that made casarean section necessary (19 per cent) On the other hand there were only 2 case of mitral in sufficiency in this group As spontaneous delivery occurred in 19 cases the author believes that the routine interruption of pregnancy in cases of mitral stenosis which is demanded by many obstetricians is not justified. He admits howe er that mitral stenosis must be regarded as decidedly graver than LABOTH (G) other heart lesions

Engelsgaard H d U A A Case of B lateral Entra Uterine Pregnancy (Lin Fall von dopprisater) Extrauterin raviditaet) Med res 1923 gy 10

The patient whose case is reported was a womin thirty three years of age whose first child was born eight years previou ly by normal labor following a cormal pregnancy Menstruation had always been regular except that two years before there was an interval of seven weeks between two periods during which there was abdominal pain followed by sight bleeding for five days

On the left side beneath the umbilious the abdomen was distended and a circumscribed to the resistance was found. The uterus was slightly en larged and displaced to the left Behind the utma slightly to the left a sharply demarcated uneven firm and tender tumor could be polpated Therepon of the left adnexa was not punful on pressure. The right adnexa were sensitive to pressure and pr A diagnosis of crita sented a soft resistance uterine pregnancy was made

Twenty cubic centimeters of lipiodol were in sected for metrosalpingography. The reentgenta ture showed an enlarged atom uterus displaced toward the left In the left tube there was a lipsoft shadow the size of a nea and on the left side above the tubal angle the skeleton of a fetus was distin thy recognizable. The length of the spinal column was 6 5 cm and the total length of the fetus about 16

cm The right tube was cloved and the uterus atonic Laparotomy revealed a tumor about the size of a fist in the lower part of the abdomen on the kit side This tumor was connected by adhesions to the omentum the left adnexa and the uterus and was found to contain a mummified fetus and an atrophe placenta. On the right side there was a freshly

ruptured tubal pregnancy

The tumor with the old abdominal pregnance was removed and both tabes were extirpated SAE GER (G) Coosalescence was uneventful

Guillemin A Acute Appendicitis with Rupture of a Bilateral Tubal Pregnancy (Appendicute auf e et supture de grossesse tubaire buaiers) Bull Sac d obst et de Lynec de Por 1928 xu 640

The case reported was that of a noman twerty three years of age. After a few days delay of a menstrual period the patient had taken an emmerogogue and thereafte the bleeding had la ted six Two days later she suffered an attack of severe pain in the right lower qu. Irant of the abdomen which was associated with rigidity and a tem perature of 102 deg ees F and confined her to bed for three days A week later she had another attack with more severe symptoms in the region of thr appendix and a slight discharge of blood from the vagina This attack was of short duration but after another seven days the pain recurred with symptoms of shock At this time there was no fever Learning tion rescaled rigidity and tendernes in the right lower quadrant of the abdomen an i distention of the cul-de sac of Douglas

Operation disclosed a large quantity of blood me pelvs and a ruptured pregrupte; in eveb tube Both orares contained a corpus luteum. The appendix was greatly influend and moderately a herent Blisteral salpingectomy was performed with preservation of a stump of the right tube and the appendix was removed. Uneventful recovery resulted. Amount F De Growt M D.

Bompiani R and Stilon V Experimental Study of Premature Separation of the Placenta (Ricerche sperimentali sul distacco intempestuo dilla placenta). Iso ital di ginec. 1928 vii. 457

Experiments were made on rabbits to determine the cause of premature separation of the placenta A renal lesion of the type of interstitual nephritis in man can be brought about in rabbits by the prolonged intravenous injection of sodium oxalate. A few injections of this substance cause changes in the kidney which are chiefly hamorrhagie. If such in jections are given to a pregnant rabbit near term the pregnancy may be interrupted and necrops) may show a retroplacental clot which indicates be ginning detachment of the placenta from its uterine attachment. If pregnancy occurs in a rabbit with a renal lesson of the type of interstitual nephritis and persistence of the lesion is maintained by repeated injections of sodium ovalate abortion is very apt to result and not infrequently the fetus shows signs of mummification

Nephritised the interstitul type may easie premature detachment of the pherenta and the formmature detachment of the pherenta and the formtion of a retroplacental loid. In these cases in addition to free or congulated blood in the cavity of the uterus there may be small punctate or stellate harm or hagen outside the zone of insertion of the phaeentaboth on the surface of the mucosa and on the sercors of the horns of the uterus. Illustrogened eximination of the horns of the uterus. Illustrogened eximination of the horns of the uterus. Illustrogened in factors in the placental temperature and access of infaretion in the placental temperature and security in Tabbats with interstitual nephritis which have died from in regions of extract of placents.

The authors experiments show the great import ance of renal lesions in causing premature separation of the placenta whether such lesions precede or begin acutely during the course of pregnancy AUDRES OF MORES WID

kreit I Too, Charrations of Placerta Pizeria Reflexa Dhring Labor Dudmosls Symptoms Treatment b Low Dudmosls Symptoms Study of the Iowatton of the Lower Uniced Study of the Iowatton of the Lower Uniced Verlinent (Dear observations de Jacenta præ as reflexa periola Jaccochement dagnostic char reflexa periola Jaccochement dagnostic char formation du segment inferency legale 1 ob t 1928 3 tuil 1920.

I lacenta pra via reflexa has rately been diagnosed chinically

The first case reported by the author was that of a woman who developed metrorrhagia a month before term. The loss of blood continued but was

very slight. At the onset of labor the cervix was 2 cm long and admitted a finger tip. After ten hours it had changed little if at all and contrary to expectations there was no bleeding. Cureful examination revealed a thick membrane covering the internal os through which the presenting part could scarcely be felt. I osteriorly, and laterally the finger could be passed hetween what was believed to be the placenta and the uterine wall. Antenoty and to the right the membrane part of the execution of the felt and the contract of the could be contracted to the could be consistent of the cotyledinous surface of the placenta but of the felta surface.

Because of a rise in the temperature a low exsacran section was performed. The placenta was found implanted on the anterior and right wall of the uterus rts lower border covering the internal os After removal of the placenta the membrane os cm thick which had been palpated during labor was referibled as the deedlus reflexa.

In the second case reported the anatomical find ings were nearly identical with those of the first case. There was no bleeding during labor and the characteristic vaginal findings permitted a clinical diagnosis. This patient also was delivered by low cesaren section.

So far as the author is aware these are the first cases of placenta pravia reflexa to be diagnosed during labor

In mether of the case, was the cervix appreciably claded. In the first case the lower interine segment was little developed by the present of the perfectly developed. The author concludes that the effacement of the cervix contributes nothing to the formation of the lower segment. He believes that the lower segment evolves from the corpus since in all low conversances actions for placents prava the all low conversances and the conversance of the placenta. This is true because the placenta pravas is practically always primarily inserted in the body of the uterias and covers the internal os which does not change position until labor begins.

In support of his theory the author eites also the following fiets

1 In primipara: the vaginal portion of the

t in primiparm the vaginal portion of the cervix is often nearly completely effaced but a cervical canal of 3 or 4 cm is conserved

2 In partial placenta previa artificial rupture of the membranes results in ascent of the placenta 3. When the area of detachment of the placenta in a case of total placenta previa is measured it is found to be much shorter than the surface of the

placenta
4 In a case reported there was a well developed lower segment with a cervical canal of 4 cm

The coordission is drawn that the uterine muscula ture ascends during pregnance and labor and that the ascent is independent of the effacement of the cervix. The mechanism is explained by the disposition of the muscular laters of the uterus which allows the long external layers to be di-placed upward without greath affecting the short deeper ward without greath affecting the short deeper layers This muscular arrangement explains also why the placenta does not become prematurely separated during normal labor

ALULRY F DE GROAT M D

Cathala V and Bardy J Can the Age of a Feture Be Determined from the Degree of D velop ment of the Bones? A Study Based on the State of the Centers of Ossification in Single Ovum Twins (L age d'un fortus peut if être fivé par le degré de développement de son ossification? Étude busée sur la recherche des p ints d'ossification chez les jumeaux univitellins) Bull Soc d'ob! et de evnée de Par 1928 xvii 601

From a comparison of the ossification centers of single ovum thins the authors draw the following

when the twins are equally developed the centers of ossincation are often but not always of the same size

2 When the thirs are of unequal development the centers of ossification are sometimes of the same size but more often are unequal. The mequality is proportional to the difference in the general bodily ALBERT I DE GROAT M D development

The Structure and Function of the Hofbquer J Ureter During Pregnancy J Urol 1928 XX 413

Paelograms show that a moderate degree of hydro ureter is an almost constant concomitant of pregnancy In examinations of too normal nomen during the seventh to ninth month Pugh noted that

to 80 per cent the action of the ureters was sluggish In a study of the morbid anatomy of the unnary tract in pregnancy the author found definite hyper plastic and hypertrophic chaoges to the pelvic por tion of the ureter both in the musculature and in the connective tissue. These changes were particularly pronounced in the juxtavesical portion where the ureter passes through the parametrum Olten the ureteral sheath equalled or exceeded the diameter of the ureter itself and the increased Shroplastic tissue between the by pertrophied muscle bundles created a rigid structure with the lumen narrowed. The striking feature of the intravesical portion of the ureter was the marked development of connective tissue and hypertrophy and hyper plasta of muscle bundles Therefore bistological evidence strongly and ares that unnary obstruction in pregnant women is caused by certain anatomical conditions in the juxtavesical portion of the areter due to hyperplastic and hypertrophic changes in the constituents of the ureter, I wall

Recent expensental work has shown that a definite increase of bile acid occurs in the blood of pregnant women Bile salts have a depressing effect upon the tonus and contraction of the uterior muscle almost comparable to the effects of narcotics They have a similar effect on the small intestines. In exp timents on pigs ureters the author demon strated that sodium glycocholate even in the pro portion of 1 20 000 causes either a diminution in the amplitude of contractions a prolongation of the

interval between contractions or both Moreover adrenatin (1 to oco) not only restores the normal contractions of the ureter but often induces more rapid peristalsis. Enhedrin is a less potent time lant In the pregnant pig the ureter shows a higher degree of sensitiveness to sodium glycochold smaller doses being capable of prolongrae the c tersals of contractions and all o of entirely with

iting them The depressing effect of bile salts may offer an adequate explanation for the loss of preteral time in pregnant women. An acceptable basis for the interpretation of such phenomena is afforded by the recognized tendency of bile salts to lower surface tension Abundant clinical evidence indicates that the upper and middle end of the ureter is more to sponsive to adrenalin than the lower end On the other hand the rather transient stimulating effect of pituiting is more marked on the lower and of the uretee Therefore it may be inferred that the alministration of adrenalin constitutes a rational procedure in the treatment of pyel is in pregnant Lyidence is at hand as to the value of pituitna for this condition However further exper me is necessary to determine which of the two hormonic

ALICE F MAYNELL VID

Duncan J W and Seng M 1 Factors Predupos ing to Pyelitis in Pregnancy Am J (b) & Gynec 1918 X41 557

principles is the more effective

During pregnancy physiological forces external to the ureter cause obstruction to ureteral and renal dramage Dilatation of the right ureter is constant and hy dronephrosis on the right side is out, slightly less common The left ureter and renal pelvis escape this dilatation in a markedly higher percentage of cases but bilateral by dro ureter and hy dronephrous are very frequent. These conditions occur earlier and more frequently and are more marked in multi paræ than in primiparæ Stas s the mabibit of the renal pelvis and ureter to empty themselves within the pormal time limits is an airrost constant finding in pregnant women and after delivery persists to a less marked degree for some time

The demonstration of coliform organisms and an ane spected amount of pus in the Li dder and kidney urage of supposedly healthy pregnant and puerpers somen justifies the term hidd a infection line of demarcation between the physiological and the pathological in these cases is a very fine one The remaining factors necessary for the development of pyelitis are trauma and a decrease of immunity L. L. CORVELL, M.D. or resistance

Loeser A Forty Five Cases of Pregnancy Total cosis Acidosis Treated with Insulin to I a He v n S hwangers haltstockosen Acid en m t In ui n behandelt) Ze i albi f Gynsek 1928.

The author's forty five cases of pregnancy ton costs which were treated with insul n included thirty six cases of hyperemests four of pregnancy demandors and five of eclampsian and eclampsia. The cases of hyperemests were divided chiucalfile that there groups. The eightern cases of the first group were mlatively easy to influence therapeut cally. First a few pieces of loaf sugar were given and half an hour later; a units of insulin were and manufacted with fruit pince. The dose of mostlin was gradually increased to 15 units twice a day. There were no failures in spate of the fact that throughout the treatment the patient was allowed to be up and about

In the ten cases of the second group every things that was taken by mouth was younted. Therefore the sugar was given by rectum. Half an hour later to units of insulin were administered. At the end of eight days, the patients condition was so much improved that the sugar could be given by mouth By continuing the treatment for at least three weeks, it was possible to prevent recurrences in every case. The dosage never exceeded 40 ounts of insulin with jo 14 gm of glucobe per unit.

The third group included cases of uncontrollable vomiting with considerable loss of weight and very poorgeneral condition. In these glucose and insulin wire given intravenously in amounts of about 30 units. There were two failures which are described

in detail

In the cases of eclampsia the action of insulin

therapy was rapid and certain as the author had demonstrated previously. Although he frequently gave insulin alone which in mild cases of eclampia is sufficient to increase the gly cogen content of the liver he usually recommends the simultaneous ad ministration of glucose (from x to z gm per unit) Kessize (G)

Retman S The Phenolitetrachlorphthalein Test of Liver Function in the Late Toxemias of Pregnancy Am J Obst & Gynco 1928 2v1 410

Bernau has tined to differentiate hespatic from real toxema by using the phenoleteralehophtha lein test of liver function. The dye was superied intravenously o s mem being used per kilogram of body weight. Blood was then withdrawn and allowed to stand until it clotted the serum was alkalnated with 5 per cent sodium hydrowde and the resulting colors were compared with standards the resulting colors were compared with standards.

In normal pregnancy from 3 to 5 per cent of the dye was recovered in filteen minutes from a trace to 1 per cent at the end of an hour and from nothing to a trace at the end of two hours. The upper from of the normal may be considered 7 per cent after filteen minutes 3 per cent at the end of an hour and 1 a slight trace at the end of two hours.

The test had been used in 118 cases. Retention of cocurred in 3. Of the 34 patients with retention of ded and of the 84 without retention 3 died. Convulsions occurs in 10 cases with and 30 cases without retention and in each of these groups there without retention and in each of these groups there without retention and in each of these groups there is a could be determined none of these patients had had chronic nephritis.

The amount of dy e retention was found to be no moder of the severity of the duesas and of no prog nostic value. Although the study yielded interesting information it failed to offer suggestions regarding the management of cases of towamia of pregnancy. The treatment and prognosis depend entitled on the funcal condition of the patient. The test does not differentiate the nephritic from the hepitic towamia in a follow up of the cases reviewed it was found that uncomplicated subsequent pregnances had occurred in each group. E. L. Corseall, M.D.

LABOR AND ITS COMPLICATIONS

Ponomareff A Casarean Operations in Russia 1756 1924 (Operations continues en Russic 1,56-1924) Gynée et obst. 1928 xv11 193

This article is a resume of the history of casa rean section in Russia presented with numerous

statistical tables

The first successful assarcan section was per formed h Erasmus of Pernov in 1756 and the secondhy Zommer of Rigain 1756 In 1810 Zommer s patient was operated upon a second time for rupture of the uterus Thus is the extent of the eighteenth century statistics

In 1874 Stolz introduced suture of the utcning wound. In 1877 antisepsis was applied to the operation by Novitsky who washed out the utcring cavity with salicely acid solution and closed the utcriss with sutures impregnated with phenol Antisepsis did not cater into general practice until 1881. Up to that time 20 operations had been performed with 7 maternal deaths.

The antiseptic era lasted until 1890. During this time the diagnosis management and operative technique made great progress. The introduction of asepsis about 1890 placed the exsarean operation on

its modern hasis

The ten vear penod of antisepsis saw the introduction of catgus stuties and the elastic tourniquet. Sixty one operations were performed with 30 deaths a mortality of 49.3 per cent as compared with former mortality of 83 per cent. The conditions of Russian life being considered these figures are to be regarded as quite good!

After the introduction of asepsis the operative indications were gradually increased. In the period from 1891 to 1900 the number of operations doubled and many operations were performed for relative indications. At the same time the conservative cassarean section of Sanger and stemization of the patient became more widely practiced. Sangers operation was performed of times with a mortality of 17 per cent and 10 are s operation 25 times with a mortality of 17 per cent.

In the twentieth century there has been further progress due in considerable part to the establishment of hospitals and obsettirated centers. The vear 1908 saw the introduction of the extrapentioneal and vaginal method, which for certain indications competed with the tran pentioneal operation.

In the period from 1902 to 2524 803 operations were performed with a total montality of 7 per cent. This relatively high figure is explained by the fact. This relatively high figure is explained by the fact that the operation must office be performed on patients who have been long neglected or who have been examined by midwise without the slightest how belong of access. A early a third of the patients have being of access. A early a third of the patients in this croun the mortality was 2 new creat.

ALBERT F DE GROAT M D

Heldier II and Steinhardt B Is Manual Extraction of the Piacenta a Very Dangerous I rocedure? (iEs la straccióa manual de placenta la mtervención ostética más peligrosa?) Rev o gent de obst V get e 103 m 61.

As a re ult of much experience the authors conclude that manual extraction of the placents constitutes a sensor procedure. It should never be attempted until the stretest indications have been established its danger is greatly increased by delay. It should be practiced only with the most perfect technique and it under the most read asserts.

In a series of collected cases the mortality was 46 per cent. This high figure is ascribed to ignorance of the danger involved delay of the operation to suit

the surgeon a convenience and sepais
William R Megree W D

Job Acute Postpartum Dilatation of the Stomach (Dilatation a ue de l'estomac après un secouche ment) Bull Joe d'obst et de gynée de Par 1928

The case reported was that of a para in thirty four jean of age when pare birth pointsneously to a jean of age when pare birth pointsneously to add infant. The cause of the fetal death was not determined. When the placents was expressed two hours after delivery the patient complianced of para in the right side of the abdomen. Thirty say hours later the physician was informed that she had been womating almost continuously sance delivery. The abdomen was then greatly distended and very paniful No. and the passed and only a bittle unmer had noted to be a support of the passed and only a bittle unmer had noted to be a support of the passed and only a bittle unmer had noted that the distention was noted marked in the upper distinguishment of the abdomen and advised lavage of the stomach.

The evacuation of large quantities of fluid and gas was quickly followed by improvement in the general condition Complete recovery resulted in a few days.

Alsert F De Groot M D

PUERPERIUM AND ITS COMPLICATIONS
Findley P Puerperal Infe tion Olio St t W J

1928 SMV 773

The author states that rest tance to postpartum infection depends upon (1) the protecting zone of round cells in the decidua (2) the infiltration of the uterine wall with phagocytes (3) the Hofbauer macrophages of the parametrum (4) the reticulo

endothehal system and (5) the defen we qual in

All conditions which prolong labor neces itale re peated vaginal examinations and manual or in strumental interference or cause retention of the lochia will increase the mortality and morbidity rate

The ganacaccus is responsible for from 5 to 10

per cent of cases of puerperal sepais

The curette and the natra utenne douch haves place in the treatment of purporal separ Directal remains should be removed existional with place contail forcept on the finger. Historectomy should be performed only for sloughing fibrack or ruptived uterus. When done by apperts lighton of the direction of the contail forcept. The direction of cases of separs. Immuno blood transfusion is a valuable remove.

Recovery rarely ensues when more than fifty bacteria are found to the cubic centimeter of blood When the number of bacteria increases in spite of treatment the prognosis is exceedingly grave. The longer the patient lives the better her chance of recovers.

Apart W. House V. III.

Young J Maternal Mortality from Puerpent Sepsis An Analysis of the Factors of Contagen Trauma and Auto Infection Id no 114 M 1 1018 very Edinburgh Ob t Soc 118

The total maternal mortality in England as Wales in 1905 was 5 t a soft the septia tate 7 by 1 000 live births. This shows that septia infection the far the most important cause of maternal fall it is of supportance also in chronic morbidit. Bit is of supportance also in chronic morbidit. Bit is of supportance also in chronic morbidit should be supportance as the set of the fall in the support of the support

The causes of puerperal infection are contains trauma and auto infection. Auto infection is present to pendent upon virulent micro organism present locally or in more or less distant foor. It is shown that the puerperal present that puerperal same not frequently the cause agents but are believed occasionally to assume agents but are believed occasionally to extend pathogene properties appending affect runns and

devitalization of the tissues

Findemic infection in hospital is best preceded
by the early holation of suspected cases in a separate
building. By scrupulous modern methols the dan

ger of confact infection cannow as his channel.

The fact that can be considered that he has been street of the considered that the last sent space of the considered considered that the considered that the considered to the cons

the present time may be justified by the lessened fitness of women for childbearing

It is admitted that trauma is the most important cause of deaths from sepas. For this bowever the med cal attendant is not enturely responsible. For the reduction of material mortality improvement in materialy practice based on a mudwid dector commonion storeshay. The physiological management of labor should be encouraged and management of labor should be encouraged and the management of labor should be more couraged and the management of labor should be more contained and the training mass seen early by more consistent.

NEWBORN

Sielnforth T The Fate of Children Born Pre maturely (Das Schicksal fruehgeborener Kinder) /entralbl f Gynaek 1928 lii 133

Of a total of 51 infants form with a maximum weight of 2 soog m. 78 (31 per cent) died in the hospital and 113 (65 per cent) were discharged in good foondtion. The smallest total of which has now been unfer observation for six and three fourths 1 six merce of 130 gm and was 40 cm long to that and was born after a gestation period of two with the standard was to the standard with the standard was to the standard with the standard was to the standard with the standard with the standard was to the standard with th

Information, was obtained also with regard to 105 of the 173 infant; that were dicharged from the borpital in good condition. Twenty we of these have dued been dued in the first month after their declarer 12 died in the tirst very of hie from gental weathers or gatter and duodenal catarrh 2 and weathers of the second very and 3 in the third very of hie form gental weathers of the second very and 3 in the third very of hie form gental weathers with the second very and 3 in the third very of his formation of the service of the

The author concludes that the mortality of children born underweight nho have passed the first var of life is not much greater than that of children born at term since of 80 premittirely home children who present the first year of life 4 40 5

per cent) are still alive

Steinforth found all of that the majority of prematurely born children had made up the loss in heart and weight by the time they were five or six years old.

In general no defect in intelligence was demon strable in the prematurely born children who were

followed up One child which was born sponta nearedly with a weight of 2 coop gm and a length of 46 cm developed Lattles cheens in the fourth month of life. The author believes that the sub sequent occurrence of disturbances of the central nervous system in prematurely born children is not as frequent as is assumed by neurologists and psychiatrists.

11. New (G)

MISCELLANEOUS

Dogliotti V Roentgen Study of the Bladder In Obstetries and Cyncology (Ultertore contribute allo studio radiologico della vestica in oste trica e ginecologia) Riv itili di ginec 19 8 vii cas

The author has used three methods of studying the biadder roentigenologically the ordinary method with an opaque medium the combined method of Aultebna and quistorentigenograph. In the combined method the injection of from 20 to 20 c cm blard method the injection of from 20 to 20 c cm blard method the injection of from 20 to 300 c cm of air Before the roentigenogram is taken the patient is made to assume various positions so that the opaque medium will be spread in a thin lare over the mucous membrane. This method instead of showing merely, the ordinary of the studying t

A number of roenigenograms of the bladders of normal and pregrams women are presented. The bladder undergoes changes in form and position during pregnancy that in general increase in degree with the duration of the pregnancy. However these changes are not constant it most cases the blidder in pregnancy is semilunar or bowlishped. The form of the bladder varies also in given copical distorm of the bladder varies also in given copical distorm of the bladder varies also in given copical distorm of the bladder varies also in given copical distorm of the bladder varies also in given copical distorm of the bladder varies and varies of the variety of the variety of the variety of the variety of the utrus and adners generally do not cause changes in the bladder preture.

Olival has reported that in generological optimions he has often found the hylder in axed a high position that operation was difficult. The author never obtained roentgenograms showing the biladler in a very much higher position than normal. This was probably due to the fact that the women he examined did not have the permenoplastic or perior ical inflammations which were evidently the cause of the diverse in the opterative case.

Doghotti often found the ordinary method of fill ing the bladder with opinque medium sufficient as in many of his cases there was considerable informity of the bladder. In cases in which the changes are only a sufficient with the changes are only a sufficient to the ordinary technique.

AUDRIAC WECK WD

GENITO URINARY SURGERY

ADRENAL KIDNEY, AND URETER

The Circulation of the Normal Human kidney to it Reco d 1923 d 51

Following a brief review of the literature on the circulation of the buman kidney the author de scribes the technique by which this circulation has been studied and gives some of his own observations

He says that the portion of kidney drained by a papilla is the vascular unit of the kidney All ves sels of the kidner from the renal artery itself to and including the afferent vessels of the glomeruh are of the type of arteries which do not anastomose with adjacent vessels to the extent of preventing an ischamic necrosis of the tissue beyond in case they are occluded. The vas efferens of a glomerulus is distributed in general to the tubules of that glomerulus All blood entering the kidnes except that distributed to the hilus structures and possibly a few small vessel to the cortex passes through a glomerulus before entering the peritubular plexus or the arteriola rectae Hence the kidney circulation

is primarily a glomerular circulation

The arteriola rectæ have a double origin in part from the vasa efferentia of the border zone glom eruli and in part as a continuation of the vessels of the pars radiata. Under no circumstances has an arteriola recta been seen arising from a vessel con trining blood which has not previously passed through a glomerulus There are no direct connec tions between the arteries and veins. The arcuate arteries of one unit do not anastomose with the arcuate arteries of the adjoining vascular units. In some human kidneys there are direct branches of the arcuate arteries which pass through the cortex to the perinephric tissue JOHN G CHEETHAM M D

Davis J E The Surgical Pathology of Malforma tions in the kidneys and Urerers J Leal 1028 XX 283

The author has made a study of twenty two cases of bilateral polycystic kidney. In eight cases mul tiple deformities other than those of the kidneys The youngest patient was twenty were present two years of age and the oldest sixty five years Three patients were blood relatives and stated that a diagnosi of congenital bilateral polycystic kidnes had been made also in the cases of other members of their families. In one case subjective symptoms were noted from early childhood to the time of death at the age of thirty two years Days draws the following conclusions from this

investigation

Inherited protoplasmic insufficiency is spe

cifically expressed by complete differentiation in nephron and their surrounding stroma

2 The pmtoplasmic insufficiency is manifested. chiefly by delayed differentiation The morphological evidence of this structural

delay is identical at all ages

The bistological diagnosis is made by recognic ang mesenchymal stroma in which nephron units are in different stages of delayed differentiation. The subcapsular zone gives the earliest evidence of both developmental delay and cystic degenerates in kidneys hver or other organs

5 The growth impulse differentiation and evitic degeneration are not identically timed in both kid

neys nor in the different parts of organs involved. THOMAS F FINEGUS ALD

Willan R J A Giant Renal Calculus with Epi thelioma in a Horseshoa Kidney Br ! J Surg 1928 XVI 317

The case reported was that of a man fifty six years of age who was admitted to the hospital complaining of severe pain in the right illocostal space discolora tion of the urine increased frequency of unastical and loss of weight and giving a history of psinies harmaturia for three days in May 1926

On physical examination a swelling was visible to the right of the umbilicus and on palpation a hard smooth swelling the size of a hens egg which did not move with respiration was felt behind the rectas muscle at the level of the umbilicus In the sres of was noted The findings of pyelography were not suggestive of borseshoe kidney. The function of the opposite Lidney was good

Operation revealed a horseshoe kidney contain ing in its right pelvis a large calculus purulest dehris and clotted blood The calculus weighed a oz 80 gr The patient died the day after the oper

ation of sudden cardiac failure

The specimen shows fusion of the lower poles of the horseshoe kidney The relation of the kidney to the aorta inferior vena cava renal vessels and left ureter has been preserved. The front view of the specimen shows a normal looking left pelvis and ure ter The anterior part of the right pelvis with the ureter has been removed Both ureters he in front of the bridge of renal tissue. In the right pelvis there is a necentic mass of growth which extends into the upper part of the right kidney substance and up behind the inferior vena cava. A large malignant aortic gland is seen in anterior relation to the larger vessels The posterior view of the specimen shows the large vessels laid open The malignant growth suprarenal capsule. More minute inspection of the specimen reveals an early stage of acute pychus in the left half of the horseshoe kidney Microsection shows a definite carcinomatous condition infiltrating the kidney substance from the pelvis The cells are epithelial and of the transitional or squamous type MARIECT NETTER M D

Scholefield B G Renal Tuberculosis The Heal ing of Tuberculous Nephrectomy Wounds J Urol 1028 XX 345

Following nephrectomy for renal tuberculous not more than 40 per cent of wounds heal by primary intention. In the remaining cases either a simulation of the persist for inany months or the wound breaks down completely and requires secondary suture. In the sulbors cases sumes were more common in those in which at operation the kidneys appeared very title diseased than in those in which extensive case action was present. The wounds were drained at overstion only when they were thought to be controlled to the control of the cont

The average period during which symptoms had been present was twenty eight and six tenths months in the cases which healed as against inteen and three tenth months in those in which sinuses developed. Therefore the more acute the process the greater the likelihood of sinus formation. The previous and postoperative histories of the cases indicated that flow resistance of the pottent to tuber.

culosis was the most important factor

The author suggests that the snuses are due not to the continuous of an existing infection but to the development of a new tuberculous process in the insumatized issues of a patient with lowered resistance. If this supposition is correct improvement after the supposition is correct improvement and the results is more likely to come from a study of most lower than the supposition of the supp

MacDonald S Teratoma of the kidney Pro

Roy Soc Wed Lond 1918 tri 1893 The teratoma reported was a hard solid irregular rounded tumor 12 by 10 by 11 cm weighing 650 gm and occupying the upper two-thirds of a hydro rephrotic kidney the pelvis of which contained a stone The cut surface ta led to show any normal kilney I ocalized hamorrhages had occurred tough white tissue supported areas that were cream colored opaque and fnable Microscopicalfy the bulk of the tissue consisted of interlacing bundles of leiomyomatous cells which in some areas were very similar in histological appearance to tho e of a myoma of the uterus but in other areas which correspon led roughly to the cream colored friable areas of the macroscopic description were more loosely and less regularly di po ed and more poly morphous and neoplastic in character. The myomatous tissue was roughly partitioned into fobular ma ees hy epta sinking in from the fibrocellular cap ule Embryonal tubules occurred in these

septa and also among the myomatous cells. They are land with short cubical entitlelum and supported by a meager scaffolding of fibrous tissue. They usually showed a self defined lumen. Their number at any one point was never large the myostromatous itsue composing most of the tumor Remnants of the runed kidney were distributed around the peruphery of the tumor.

The patient a man fifty years of age lived four months after the operation. From the age of elex en years to the age of thenth, four years he had suffered attacks of pain in the left loin and passed discolored urine. After an interval of freedom from 5 imploms he seam had frequent attacks of prin and occa.

sionaffy voided a few small clots

Autorsy showed a large recurrence occupying the hed of the left kidney. This had spread upward be hand the perstoneum to form large soft white masses burying the pancreas and pushing the liver forward Above the diaphragm the posterior mediastinum and night thorax were filled with the growth to about one third of their extent. True metastascs were few A metastasis of large size was noted in the middle of the left lobe of the liver and a small one in the manubrium A few nodules of growth occurred within the peritoneum attached to the omentum and coils of intestine in the neighborhood of the local recurrence in the left renal pouch. The right kidney the inferior vena cava and the pelvic viscera were MAURICE I MPLIZER M D bevlovaran

Lower W E and Belcher G W Conservative kidney Surgery 1m J Surg 1928 v 191

Lower and Beleber state that with increased preoperative knowledge of the problems presented by pubblogical conditions of the kidney renal surgery is becoming more conservative

In the presence of pyelonephritis infected hydro nephrosis and urcleral obstruction surgical intervention has been replaced either completely or inpart by the use of the urcleral catheter

In a case of moderate hydronephrosis ureteral datation and hidney lavage removed the infection and reduced the retention. When the patient was fast beard from almost three years later he was apparently quite nell.

Nephrotomy is now generally avoided if the condition can be treated effectively by pyelotomy

In the removal of a large stone through a prefotomy incision the urelet may be accidentally torn loose from its attachment to the renal pelvis. If this occurs anastomosis should be performed. In no instance has there been any errous after effect from this procedure.

An attempt should be made in all purulent cases to reduce the infection as much as possible before operating especially if a nephrotomy is to be done fater. In some cases such as those with a large infected hydrimephrosis and little remaining renal tissue in which a secondary nephretromy is to be performed and those in which there is moderately good renal function and the emergency operation is

precipitated by ureteral obstruction rather than by extensive infection in the renal cortex the infected kidney may be drained satisfactorily by pyelostomy

In the authors opinion it is madvisable to deliver the kidney through the wound for the removal of a calculus from the pelvis since in most instances it is possible successfully and safely to carry the opera tion to the kidney Even when the stone lies in the tip of a long calyv it is probably better if the size of the stone permits to do a nephrotoms with out delivering the Lidney

It has been shown that while a half of one kidnes is quite sufficient to maintain life such limitation in the amount of kidney tissue is a serious handicap When the removal of one Lidney and half of the other is necessary the complete nephrertomy should be performed first so that the kidney to be resected can receive the henefit of compensatory hypertrophy

before its diseased half is resected In conclusion Lower and Belcher say that renal surgery has gone through a number of pha es At first it was quite conservative. Later it became radical and now it is again becoming conservative The authors believe that the treatment of renal lesions should be conservative whenever possible In support of this view they cite the results obtained in a number of cases in which the only treatment was ligation of the accessory vessel obstructing the ureter Two of the patients are entirely well sixteen and nineteen years respectively after the operation Cases in which the removal of part of a kidney is done constitute the most radical test of conservatism Penal resection should be performed only after very careful consideration of all of the findings in the case In all cases in which the amount of kidney tissue is subnormal because of disease or operation it is essential that the patient follow a rigid routine

Louis Gross M D

Bransch W F Stricture of the Ureter J Am M 1ss 1028 VCI 1263

The incidence and the significance of pathological involvement of the ureter have not been generally appreciated until within the last few years Stricture of the ureter occurs more frequently than has been recognized but not as frequently as some observers are inclined to believe

Recent contributions concerning lesions of the ureter fail to give an accurate idea of the incidence of stricture as reported clinically To determine this incidence a detailed examination of the ureters in at least 1 000 autopsies in a general bospital will be necessary The existence of so called wide stricture is not substantiated by pathological evidence

Subjective symptoms and abdominal palpation are misleading and quite madequate for the diag nosis of ureteral stricture Because of anatomical variations in the caliber of the ureter the hulh method of diagnosis 1 quite unreliable Urography is the best method of diagnosing stricture but a urographic examination requires experience in inter pretation and an accurate technique

Difating the ureter in ca es in which there is definite evidence of a non tuberculous stricture is a justifiable procedure and frequently gives ercellent results Atomic dilatation of the ureter is more common and of much greater chancal against and than has been recognized. It is usually not benefited by dilatation

Spasm of the ureter frequently offers a longal explanation of obscure symptoms referable to the urmary tract It usually occurs in patients who are suffering from functional disturbances without an

apparent organic basis

Instrumental dilatation when employed in the treatment of ureteral spasm or as a counter implicit should be regarded as a method of physical therapy Repeated and long continued dilatations of the tireter particularly when the program does not show evidence of abnormality is to be deplored

RLADDER HRETHRA AND PENIS

Hirsch E W The Relation of Bladder Pressure to Bladder Function J Am M Ass 19 8 xt 77

Rapid complete evacuation of urine from the over distended bladder may be followed by renal and cu culatory shock. The work of lan Zwalenburg Foulds Shaw and Young Cunningham Bumps Campbell and Scott has demonstrated the advesbulity of reducing residual urine with care Campbell concluded that the withdrawal of the first 100 ccm is the danger point Important work in bladder pressure has been done by Schwarz Masso and Pellacani Elliott Muller and Rose

The extransic factor of respiration must be con sidered Deep respiration and coughing will cau ea rise in the bladder pressure. The changes in bladder pressure produced by sensory stimuli and psychic states are due to indirect stimulation of the re pita tory center with temporary inhibition of respiration The bladder contraction is due to the periodi intra abdominal waves caused by contraction of the dia

phragm secondary to respiration To observe the behavior of the bladder muscle under various conditions the author attached a rath eter to a water manometer and recorded tracings on a smoked drum Tracings of bladders arthreally filled showed a slightly higher pressure than the eof bla iders normally distended with urne In the over distended bladder the removal of 30 c cm of unit caused a temporary drop of from 5 to 30 per cent The removal of small amounts of urme often caused a rise in the pressure The drop-by drop method was found to be the safest and most satufactory By this method a continued drop in pressure was obtaioed and the rhythmic bladder waves were pre-

In the study of bladder function the neck of the bladder must be taken into consideration Pathol & scal changes at the neck may cause hypertrophy with high pressure or inhibit the bladder muscle causing low pressure In prostatitis the pressure is low even when the bladder 28 small while in hypertrophy with a large amount of residual urine and thickening of the bladder wall the pressure is usually high

Hirsch is of the opinion that the chart presented by Muller in his discussion of the functional polla turns is incorrectly interpreted. He believes that the drop in pressure at 200 c cm is due to muscle

In conclusion, the author states that determina tions of the bladder pressure will aid in the diagnosis of functional and organic bladder lesions but must be only a part of the prological examination. They show the result and not the cause of the disease When in bladder disturbances in women there is no evidence of a lesion in the urethra bladder or central nervous system and the bladder pressure is normal the con dition is probably due to a psychic disturbance CLAUDE D PICKBELL M D

McClintic C F The Clinical Neurophysiology of the Automatic Urtnary Bladder and Enuresis

J Ural 1028 XT 257

The emptying mechanism of the bladder consists of a toluntary and involuntary mechanism the former controlled from the cerebrum and the latter from the spinal cord This gives a physical basis for the explanation of certain cases of enuresis incontinence and bladder involvements associated with cerebral disturbances internal car diseases lesions of the corpus striatum incontinence in imbeciles and idiots and other conditions

When enuresis is due to hypothyroidism theroid extract may be used. When it is due to a decrease in irritability or hypotonicity of the musculature pituitrin may be used. When it is due to a decrea e in reflex irritability in the voluntary mechanism cord centers atry chaine may be used I nuresis may be the result of loss of inhibition or local irritation In the cases of little girls its cause may be an irrita tion of the glans chitoris. When it is due to loss of

inhibition from cerebral causes measures must be taken to improve the general health Incomplete transverse lessons due to cerebral tumors cysts aneurisms eye strain strabismus arachroiditis circumscripta tow mentality lesions of the corpus strictum mid brain lesions cerebellar lesions cysts tumors tabes and vestibular lesions (ear and canal) are never as ociated with an automatic blad ter but are often responsible for incontinence enuresis or retention. A complete transverse lesion. due to cord tumors injury to the cord varicose veins of the cord degenerative discuses of the cord or local arachnoiditis results in an automatic bladder

Local organic nerve lesions or irritation may cause pastic bladder (so-called vagotonia) enuresis and incontinence C TRAVERS STEPITA M D Visher J W

Bilateral Vesical Diverticula at the Letteral Orifices Visualized with Liptodal Report of a Case J Urol 1928 xx 451

Ureters rarely empty into diverticula hence this case report. The patient a man twenty nine years of age hall had a supernumerary finger and toe te

moved and had suffered two attacks of renal colic the last associated with the passage of a small calculus Physical examination revealed chronic prostatitis

geten arthretis of the right sacro-iliac joint and bi lateral flat foot The urine was alkaline and con tained a rooderate number of pus cells Forty per cent phenosulphonephthalem was excreted in two Roentgenography revealed several small

stones in the region of the left kidney

Meatotomy was performed to allow cystoscopy At the site of the ureteral orifices two openings about a mm in diameter were found which suggested diverticula (longitudinal folds of the bladder mu cosa) An ereteral openings were observed. When catheters were introduced into the openings and sodium brounde was injected, the catheters could be seen curled up in the diverticula. In the anterior urethra there were multiple strictures of large caliber

At another examination 3 oz of residual urine were found. Following the intravenous injection of indigocarmice meatoscopy revealed a small amount of the dye coming out of the diverticular openings to other onemnes could be discovered. The cathe ters curled up in the diverticula drained a rather deep blue urine. In a cystogram made after filling of the diverticula with lipiodol diluted with three parts of olive oil and filling of the bladder with air through another catheter the diverticula were distinctly

Visher has found lipiodol an excellent contrast medium for the visualization of diverticula in this location as it is much heavier than water and does not diffuse with water. He states that if the lipiodol is diluted as in the case reported heated and in jected with a small syringe through a rather large needle its use is simple and non irritating

LOUIS NETWORKS M D

Frater k. A Study of Epithelial Neoplasms of the Urlnary Bladder J U ol 1023 zx 271

From a study of a series of cases of epithelial neoplasms of the urmary bladder Frater draws the following conclusions

The so-called benign papilloma should be classified as an epithelioma of low malignance

2 With few exceptions malignancy does not

increase with recurrence

3 The grading of a specimen of a neoplasm of the bladder removed cystoscopically can be relied upon 4 The pecimen reported to be inflammatory tissue must be examined several times before the

exclusion of malignancy is justifiable 5 Epithelioma of bladder does not show a varia tion in the grade of malignancy in different parts of the same tumor

Judd E S and Thompson H L Exstrophy of

the Bladder Complicated by Carcinoma Arch 5 g 1928 xvn 64r

Carcinoma is a rare complication of exstrophy of the bladder The authors review 19 cases collected. from the literature and report an additional case

Although adenocarcinoms is of comparatively raise occurrence in the normally developed bladder at is the type of caneer most commonly associated with extrophy of the bladder of 16 85 tumors of the normally developed bladder which were seen at the Mavo Clinic only 19 (2 10) when adenocarcinomata Of the 19 carcinomata associated with extrophy of the bladder reported in the literature 12 were abone carcinomata and a were squamous cell carcinomata in 3 cases no histological renort was made

The authors review the theories advanced as to the etiology of extrophy of the bladder and discuss the embryology and histology of the bladder with special reference to the pathogenesis of adenocar cinoma complicating extrophy of that organ

No reports of cure following treatment were found in the literature. The cases of a patients treated at the Majo Clinic who have remined well for three and six and a hall years resp ctively since operation are reported in detail.

Antonucci C Total Cyatectomy in Women (De la cystectomie chez la semme cystectomie totat clarge) J de thir 1928 xxxii 153

An original technique of total cystectomy for primary or secondary cancer of the bladder is described. The operation is based on the principles of Wertheim's hysterectomy and of Albertin's amputation of the rectum. The steps ore described as follows.

1 A suprapuble incision is made with the patient

in the Trendelenburg position
2 The tubo ovarian and round ligaments are
sectioned and the ureters isolated as far as the uter
ine arteries and picked up in a loop for future iden
tification. The uterine arteries are then ligated and
cut

3 The preventular peritoneum is mosed and the bladder separated in the median line and on the sides by gauze dissection. The uterosactal logaments are then sectioned to allow free mobilization of the uterus. The ureters are sectioned and the vesticular ends ligated.

4 The posterior vaginal wall is incised transversely and the upper lip grasped with a tenaculum After ligation and section of the lateral vessal plexuses the vaginal incision is continued anteriorly well below the neoplasm the mass to be removed then being held only by the urethra

5 The urethra is sectioned between two L clamps and the distal end ligated Harmostasis is effected gauze is packed into the parametrium and brought out through the vagina and the pelvis is

perstonealized. In the author's first case the ureters were brought out through the anterior abdominad wall and death resulted from urems. In his second case a pre liminary lumbar ureterostomy was performed and proved more satisfactory. The author has found that patients will accept a ureterostomy as readily as a permanent colostomy.

ALBERT F DEGROAT M D

GENITAL ORGANS

Walker K The Diagnosis and Treatment of Sterilley in the Male Brit if J 1017 is 60

Walker states that the spermatogene function of the testus as far more sensitive to external influences than its function of internal secretion. He belows that the greatest progress in the study of male size intry, will result from investigation of the effects of focal infection endocrine disturbances and det

Herrold R D The Interpretation of Chronic Infections of the Prostate and Seminal Vesi cles J Am M Ass 1928 xc1 557

Herrold states that although gonorrhea is usually a predisposing cause of chronic prostatitis and vesiculitis the gonococci are usually displaced by other bacteria by the time these conditions have developed Persons with a remote history of gonorehœa are as hable to have a hæmatogenous in fection as those with a negative gonorrheal history It is probable that in some cases the infection of the genitals is of the descending type in which direct extension is brought about by the unne Occasion ally mild non gonorrhoen urethritis may reach the prostate without causing definite posterior urethris but clinical evidence seems to indicate that many infections of the urethra and prostate are due to gonorrhona either latent or active Obstructive changes in the urethra with resulting unnary ds turbances or urethral discharge are often closely allied to a low grade infection of the prostate and semmal vesicles A vicious circle is therefore established as each condition tends to aggravate the other Other factors increasing virulence of the is tent bacteria ore sexual excess exposure to net and cold extreme physical exertion and conditions out side the genito urinary tract such as arute infections and chronic debulitating diseases Stricture of the urethra developing years after an attack of gonor rhice may be explained by secondary stimulation of the foct of infection and the production of infiltration at the previously injured area. The action of the foci may be of an allergic nature

Localized symptoms or referred pans (natritable are often proved by the therapeut test to be due to those proceed in the provent of the concept of the control process of the control p

the prostatic infection. Finally, there is the large group of so-called life. Finally, there is the large group of so-called life. Infections which are encountered frequently in postgonorchood examination for determination of cure. The question axises whether they later may become active foot of localized infection in the post tate or of general systemic disease. The bit technological and sevological study reported by life.

rold was made to determine the significance of this type of infection and to serve as an aid in the interpretation of active manifestations local or general

of doubtful prestatic origin

In trent) six cases of chromic infections of the prostate and weakles repeated cultures showed the reperted predominance of the same type of bacteria in many instances. The identity of the organism in succeeding cultures was further corroborated several times by positive agglutination with the patient serious and the bacteria solated from the same price at various times. The more community of the properties of the colon bacillas. Usually there was a mixture of two or more of these bacteria but pure cultures were also found

Studies were made of the virulence of the prostatic fluids. The same bacteria often predominated in cultures repeated at various intervals predominating types were more often positive in the virulence tests than other bacteria. The groups of urethral flora in chronic prostatitis are frequently dependent upon the infection in the prostate and seminal vesicles. One or more types of bacteria isolated in cultures from the prostatic and seminal fluid are often agglutinated by the nations a serum Prostatic fluids containing bacteria agglutinable by the patient's serum were more often lethal to mice when injected intraperitoneally than those con taining strains non agglutinable with homologous sera "Lin tests with the supernatural broth of three day growths of the whole prostatic fluid inoculum seem to indicate that the flui is producing the great est amount of skin reacting substance are more likely to be lethal to mice when injected intraperitoneally

The tentative results of the arridance tests in meant that further studies to afterning a more definite evaluation of focal infections at their source are northable. It is probable that the value of action working the state of the state of

LOUIS NELWELT M D

Barringer B S Phases of the Pathology Diag nosis and Treatment of Carcinoma of the Prostate J Leol 1928 xx 427

Carcinoma of the prostate usually begans in the po terior lobe. Its progress is upward into the body rather than downward toward the perineum. It usually metastasizes late.

The author is attempting to classify prostatic car tinomata according to their radiosensitivity. He believes that radiation should always be used prior to operation. Ye extensive major operation should be avoided when possible

In conclusion Barringer states that an examination of the prostate should be included in all general physical examinations of men over sixty veries of age Linguistics MD

Hirsch E F and Schmidt L F Small Car cinomata of the Prostate Gland J Urol 1928 xx 487

The authors review elseen cases of smill carcino mate of the prostate with the findings of histological examination. The results in these cases emphasize the importance of making a metoscopic examination of tissue from many areas of prostate glands removed with the chincal disagnosis of being enlargement in order that small malignant growths may not escape notice. Exam Riess VI D.

Campbell M F Spermatocele J Utol 1928 xv 485

There are various theories regarding spermatocele formation. Virchow first pointed out that pathologically spermatoceles are true retention exist and Aocher showed that the vasa efferentia are the usual site of spermatocele formation.

Anatomicalls spermatoccles are extravaginal or intravaginal. The extravaginal type which are the most common usualls arise behind the testicle between the testicle and the epididism is and develop outside the tunica vaginalis envelope. When they spring from the vasa efferentia or the superior vas aberrans the rete testis is the site of insertion. They may become lobular because of constructing crucial afforms bends and may atting great size or vas deferent stell are rare and are character statedly overma and sincle

The intravagnal spermatocle springs from some part of the epiddymis develops within the tunier vagnalis and may ripiture into a surrounding hydrocle nutb a duchatige of spermatonous. The cyst may be about the size of a testucle. The most frequent site of origin of the intravagnal operand celes in the canal of the epiddymis or the sessile hydrotic.

Histologically the cyst will is composed of interlating connective tissue fibers interspersed with smooth muscle strands. The cavity is lined by chitted or evindrical epithelium if it is recent and by flat pavement epithelium if it is off.

cypermatocele fluid is usually opalescent and misk because of its semmal elements. On standing it separates into two livers a clear layer above and a whitish layer below. Microscopic examination reveals mirads of lymphocytes fat globules epithelial cells and spermatozoa. If the cyst communicates with the seminiferous tabules the spermatozoa will be device if it does not the spermatozoa will be dead. The fluid is neutral or only feelby alkaline in reaction and differs from hydrocele fluid in its lighter pecific gravity and its low content of solids and albumin.

Spermatoceles are most common in men between the twent fifth and fiftheth years of age. They are rare in oil or voung adults. Since they cause little inconvenience their duration varies. The symptoms are chiefly those of a growing mass at the top of the

testicle with a dragsing sensation in the penis testicle and cord Dislocation of the testicle may occur. It may be induced on erection and may be intermittent. It's rare after intercourse. Peoplasia may be suggested but these existic tumors grow lowly and are not so hard as carrinoma. Nor should they suggest tubertulous epididy mits. Fluctuation is composity morel. Transilumination offers bible is composity morel. Transilumination offers bible offers transilucent. In many cases asympton alone will differentiate spermatocle from bivdocle

hæmatocele and chylocele Aspiration of spermatoceles will chuch the diagnosis but will not cure Excision of the cyst sac is the indicated treatment. This is easily done under local anasthesia Partial enididy meetomy was performed in thirteen cases and complete removal was done in one case. Any portion of the cist wall which cannot be removed should be destroyed by cauteriza tion phenol serves admirably. After closing the wound without drainage the author applies the Bellevue scrotal compression bandage which prevents oozing and hamatocele formation and affords ample support and complete immobilization with compression. The patient is kept in bed for from five to seven days. I ostoperative complications are The most common complication is scrotal bleeding with infection LOUIS NEURSLY M D

MISCELLANEOUS

Wesson M B Pitfalts in Urography J [13]

The correct interpretation of pyelograms is at times difficult. While overdistention of the pelvis may cause discomfort incomplete filling of the pelvis may cause an error in diagnosis.

We soon prefers the gravity method to the wange unless at its contra undirected by a low phthat one op the case of a contra underected by a low phthat he cases of anuma reported following bilated pelography are due to the effect of the protography are campanion and cites two cases which show tureteral manipulation without pyelography are cause anuma.

Seven cases demonstrating errors in unerphare per eported. In one a filling defect was caused an organized blood clot. In nother there was a sufficient grain type persure. In a third the type the catheter in a cally with its even plugged was due nosed as a tumer. In three ca of stoons with defent densities—two of gall stoons and one-clakery stoon—the diagnosis was doubtful. In the sense cause of the bladder disappeared under deep therapy but suchops showed an adnerance more therapy but suchops showed an adnerance or the threapy but suchops showed an adnerance or the wall.

CLEATER DEPERSION.**

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Griffith A S The Types of Tubercle Bacalli in fluman Bone and Joint Tuberculosis J Path & Bacter 1 1948 xxv 875

This article which deals solely with the results of English studies is divided into five sections.

A summary of four published series of cases

1. A detailed account of the results in a fifth series. This investigation was begun in 1921 and extended into regis. The series included 147 cases. The original material has for the most part put aspirated from absesses. From rg.3 of the 146 cases cultures of tuberled hacili, were obtained either directly from the original material or from a guinear pip inoculated with it. The cultures were designed hist according to the cultural characteristies. If the trian provide ungoine the virulence test on rabbits was usually omitted. All dysponic cultures were tested on rabbits and some of them on guinea page.

3 Statistics—a summary of the 5 series of cases and an analysis of all bone and joint cases
4 A discussion of the relative frequency of

human and bovine infections in different bones and joints

5 A discussion of the portals of entry of tubercle bacilli in bone and joint tuberculosis

In summaring, the author states that tubered bothlibate here insolated from 396 cases of bone and joint tuberculosis and their type has been determined. In persons under twenty three years of age bouse butilib were found in 30 per cent in children between the state of age in 33 per cent and in children between the size of age in 33 per cent and in children between the size of age in 35 per joint size of the siz

Bosine bacilli appear to account for a larger proportion of cases of tuberculosis of the spine than of cases of tuberculosis of other commonly affected bones and joints

Bone and joint tuberculosis may be the result of

respiratory or alimentary infection

Robert C Longress M D

Phemister D B Unusual forms of Osteomye

Unusual forms of osteomyelitis may result from variation in the age type and virulence of the micro-organism the bone affected and the site of involvement of the particular bone

Osteomyelitis usually occurs at a point in bone where the circulation and growth are most active. Sclerosing osteomy elits occurs when the infection speeds more or less diffusely in a large segment of bone without pro lucing sequestration. In such cases

it may be difficult to differentiate from other inflam

Localized esteony clits 13 most frequently confined to the metaphys to of a large bone It begins acutely with fever localized pain and swelling A cavity as rapidly formed which is filled with pus If the cavity does not rupture the condition passes into a chrome stage with exacerbations of the infection. Operation is necessary for the eradication of the foct. The foct are commonly called Brodie s abscesses although this name conveys a false concretion of their nature.

Non suppurative or fibrous osteitis is an inflam matory process in bone characterized by the marked production of fibroblasts and bone absorption and usually slight estudation. Bacteria have not been demonstrated with sufficient certainty and regularity in these beinging giant cell tumors or bone cysts to

prove that they are the exciting cause
The author calls attention to a group of chronic non suppurative localized inflammations of the bone. These lesions may be subperiorated or endo steal or occur in the cancellous bone of the end of the shalt. They pursue a subscutte or chronic course and produce a small area of bone destruction. The cavity is filled with a soft brownshor gray shit stays without leacocytes or Jimphocytes. The symptoms are pain and tenderments which are mild at the onset and exert cases. The condition responds readily to saucernation.

Bone cysts may occur as solitary lessons or as part of a multuple fibrocystic disease. The solitary lesions are seen usually during the period of growth. Mann theories have been advanced to explain these lesions but the author thinks that a micro organism is the exiting factor. He has reported two cases in which a green producing streptococcus was found. The area of the producing streptococcus was found. The tumors in exceptional cases is evulering in a fact the view that the lesion is a benign neoplain rather than an inflammatory process.

ROBERT V PENSTON M D

Evans W. A. and Leucutia T. The Value of

Roentgen Ray Therapy in Irimary Malignant Fumors and Benign Glant Cell Tumor of Bone Am J. Roentgenol. 1928, xx. 303

The authors first present the nomenclature and classification embracing all sarteties of bone timors which has been accepted by the Registry Committee of the Amencan College of Surgeons They discuss the five year cures of primary malignant bone timors recorded in the 1 eg tri and call attention to the fact that the cured cases were treated 1 samputation alone by amputation and toxins or by

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treatum with marked invasion of the blad'er
wall.

Cauver D Persiss, MB

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ROBERT C LONERGAN M D Phemister D B Unusual Forms of Ostcomve

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Evans W A and Leucutia T The Value of Roentgen Ray Therapy in Primary Valignant Tumors and Benign Grant Cell Tumor of Bone Am J Reenigenol 1928 XT 303

The authors first present the nomenclature and classification embracing all varieties of bone tumors which has been accepted by the Registry Committee of the American College of Surgeons They discuss the five year cures of primary malignant bone tumors recorded in the Registry and call attention to the fact that the cured cases were treated by amputation alone by amputation and toxins or by

amputation towns and irradiation. Not one case was treated by irradiation alone or by amputation and irradiation without towns.

In their opinion the explanation why irradiation in general and rooting ray irradiation in particular felf into disteptite as therapeutic measures for a continuon in which other methods strongly advocated union in which other methods strongly advocated the strongly and the strongly advocated the strongly and the strongly and the experimental stage and the doors admissisted were foo small to produce an appreciable therapeutic effect. Since the introduction of the highly penetrating irridiation with larger well measured and more executifically applied doors irradiation therapy essentifically applied doors irradiation therapy is becoming more and more prominent in the treat ment of maligingant bore lessions.

Five years have now clapsed since the authors first cases of bone tumor were treated by deep roenigen my irriduation. The results obtained demonstrate that the roenigen ray is one of the most powerful agents at our disposal in the treat unions as well as being paint cell timors. It is possible from roenigen irriduation through even in cases with extensive metastases and those in which no other methods can be of benefit all of the cases reviewed were registered with the Registry of Bone Barronia of the Amerian College the Registry Committee.

the Registry Committee The authors discuss the relationship of the morphological structure of the tumor to the response which may be expected from irradiation and report the histories of cases of different types of tumors treated with photographs roentgenograms photo micrographs and appended summaries commenting on the results obtained by the roentgen therapy The question of dosage in general the reason for the variable response to treatment and the necessity for special dosages in individual cases are considered The method of procedure used by the anthors for various types of tumors is described in detail. The value of roentgen therapy in osteogenic sarcoma Ewing's tumor myeloma periosteal fibrosarcoma borderline tumors such as skeletal chondroma and myxoma and giant cell tumor is also given con sideration

Roentgen ray therapy of primary indiginant bone tumors and of beinging giant cell tumors is governed by the following rules which are based upon the primary influence of the roentgen rays on the highly complicated tumor tussues I Cellular tumors without much stroma and rich

in blood supply though chancally and from the surgical viewpoint very malignant may be made to disappear entirely by irradiation 2 Tumors of the adult type especially when rich

2 Tamors of the adult type especially when rich in mature intercellular structures (cartilage bone) and poor in blood vessels may prove entirely refractory to irradiation but yield readily to surgical procedures 3. In tumors of the intermediate type the more undifferentiated cells may be made to disappear as! the growth of the more adult (cells may be rursed by irradiation so that they produce an incidence cellific (cartillagenous and oscoss) intercelair and stance. A marked sclerous with considerable prolongation of life often results as such car's looked instances posturadiation surgual messures are didutinct value.

From their results the authors conclude that the present standard methods of treating bone sarcoms and benign giant cell tumors should be completely revised Irradiation in the form of deep menters ray therapy should find a more extensive application in all forms of bone sarcoma and giant cell tumor operable or moperable whether combined with no greal measures mixed toxins or the more recentled therapy and it remains for the Registry of Bone Sarcoma to collect more complete stati tical evidente regarding the value of such a procedure In ton clusion the authors state that as the Regutty has abundantly succeeded in establishing a stanfard nomenclature and standard criteria of classification, they are confident that it will now succeed in estab lishing more or less standard measures of then Apoles Burne MD peuties

Reiller V II Unusual Types of Ostrogenic Sar compata Texas State J M 19 C xnv 4 9

The first tumor descended by the subtor as a function menoplasts which developed on the lare end of the shall of the femur of a pit thirtee year of age. On section it presented no age of low-cartilage or calcium deposit. It was subtored the same and was compared to the shall of the femur and the apphysis was so mistirated that had lost its identity. Cellular elements which are comparatively levs showed small insurine space.

shaped nuclei. The second specimen described was a custally expending tumor occupying the upper find the third shaft and modoing the apparent less II had grown rapidly and had been quit estimated by a comparent of the proper of the properties of the properties of the properties of the strength rarefying tumor surrounded but not shall a diagnoss of malignament and the strength as dispensed of the presence of the surrounded but on the stock and the strength of the properties of the surrounded but the properties of the surrounded but the temporal of about 19 properties and on broken the strength of the properties of the surrounded but the exception was seen to be compared of about 19 profits cells with restage anders some of which showed recent distingon Manerous large blood spaces which were present were less with mailigeant cells:

The third specimen was a malignant bost spectum. Although gross examination reteiled so it semblance of this tumor to famout defined with tology of the neoplasm was almost defined with that of Ebrostroma except for a marked different in the vascular supply. The tumor mass was corposed largely of blood not endle of in vessels into lying in huge spaces imperfectly walled off by tumor

tissue The last specimen described appeared to be a henign giant cell tumor smoothly surrounded and separated from the soft parts by a thin but distinct bone shell covered by practically normal periosteum Histologically the bony capsule showed imperfect plates of osseous tissue similar to those found on the perphery of the giant cell tumor and not neoplastie nor malignant. The tumor mass was soft and very frable and presented a considerable amount of blood clot. Many of the sections studied showed the typical findings of giant cell tumor while other sections showed areas which were definitely malig nant with undifferentiated loose osteoblast like cells typical tumor blood spaces and attempts at bone formation

Although osseous tissue is by no means a neces sary feature of osteogenic sarrooms and not always characteristic when it is present its presence is as valuable in the diagnosis as a typical giant cell in tuberculosis. Avernove 1 Sava M D

key J A The Cytology of the Synovial Fluid of Normal Joints Anal Record 1928 xl 193

The cellular constituents in the synoval fluids removed from the joints of men and laboratory animals here studied by a method of supravital staining Regardless of their source the fluids were similar in the type and proportions of cells found The cell count was usually between 175 and 25 per cubic millimeter during life and rose rapidly after death

The cells of the macrophage series are the most important cellular constituents of normal synovial fluids Eighty eight per cent of all nucleated cells found could be placed in this group which includes monocytes (58 per cent) elasmatocytes (15 per tent) indeterminate mononuclear phagoeytes and primitive cells The proportion is about the same as that found in connective tissue a fact which further supports the theory that the joint cavities are clefts in connective tissue and are incompletely lined by slightly modified connective tissue cells The macro phage group are mature hving cells whose function it is to remove waste or foreign material from the joint cavity Red blood cells are normally present in synovial fluids together with leucocytes fat and tissue debris. Only a few detached synovial mem brane cells were found while degenerating and car tilage cells were never seen. This indicates that fric tion of the joint surfaces is a negligible factor in de termining the cellular constituents of the synovial CHESTER C GUY M D

Gibson A The Ettology of Rheumatold Arthritis

J Bo & & Joint S & 1928 x 747

There are two main groups of theories regarding theumatoid arthritis. (1) that it is due essentially to a disturbance of body chemistry and (2) that it is infective in character. The three chief non infective factors are (1) a congenital predisposition (2) endo crine disturbance, and (3) faulty alimentation.

The theory of infection is widely accepted and there is considerable evidence in its favor. By some it is assumed that organisms reach a joint and there initiate the series of changes resulting in the production of the disease. By others it is believed that for some reason the joint has become hypersensitive and reacts in an anaphylactic manner when it is reached by a toru from an infective focus.

An argument advanced against the infection theory is that the joint fluid almost constantly shows no growth on culture. On many occasions however organisms have been cultured from the synovial membrane and it is possible that cultures of the subsynovial tissue obtained without entering the joint cavity may give more frequent positive results.

In a number of cases estimpated deep inguinal glands have furnished abundant evidence of active organisms capable of growth With Cadham Gibson therefore prepared a vaccine from the organisms found in such glands and gave it subcuttaneously in graduated doese of too ooo ooo to go ooo ooo oo in every case the treatment seemed for result in some benefit. The ciber improvement noted was the arrest of the acute evacerbations of the disease Gibson is therefore of the opinion that the key to the problem may be found in the bacterology of the lymphatic glands.

Stern W. G. Acute Painful Ankylosing Arthritis
J. Am. M. Att. 1928 xci 1253

Stern reports two cases of dry arthrits of questionable etiology. In most of bis cases of this type there has been a history of tonsillitis furnieulosis or some other focus of infection but in none bas it been possible to discover any evidences of gonor rhera in spite of careful search for this condition. The symptoms have been mainly subjective—in tense pain on the slightest motion. There has been ensuelling interests in the spin you'd find or change now the first properties of the properties of the promited permanent and planter case for three months. This resulted in planter case for three months. This resulted in the weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected plant a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removal of the caffected joint a few weeks after removed in the caffected joint a few weeks after removed in the caffected joint a few weeks after removed in the caffected joint a few weeks after removed in the caffected joint a

In the discussion of this paper Gaenslen stated that be would heattate to accept this form of arthribase as a distinct elinical entity because evidences of old gonorchocal infection are always difficult to find and because more detailed bacteriological studies might have shown an organism of the progenic group in the sproyoual fluid removed.

CAMPBELL attributed such eases to a pyogenic organism because the condition follows acute infections

CRESTER C GUY M D

McFadden G D F Obstetrical Paratysis Some Factors in its Production Progress and Treatment J Bone & Joint Surg 1928 x 661

A straight pull on the brachial plexus does not tend to rupture the fibers but a pull downward by severe depression of a shoulder changes the angle of ext of the nerves from the spinal cand in such the part of the nerves from the spinal cand in such the plant is publicable that while it is a shducted over the the arm is publicable that while it is a shducted over the first that the spinal control of the second of the the head also plays an unportant case. Returned the head also plays an unportant case process of the seventh cervical will press forward against the fifth and sixth nerve roots where they join. Obstet read plays has been known to follow attempts to rovice the shoulders by two ting the days head for the shoulders by two ting the days head for the shoulders by two ting the days head the obstetrician pulls and twists the body while the head is still faced in the pelvis

Although it has been contended that a partial or complete dislocation of the shoulder point is the primary lesson in Erbs palsy the weight of evidence tradeates that thus secondary to the near lesson has the result of interference with the growth of the head of the humerus and contracture of the pricapsule the shoulder takes on a deformed and sub-luxied appearance. In most cases the child is unable to supmarte the forearm. This disability is due not to loss of mustle power in the supmariors but to the fixed integral rotation of the humerus which prevents the prim from facing upward.

When there is great diluculty in the delivery of the shoulders it is better to pull with a finger in the axilla even at the risk of breaking a clavicle than to pull on an arm. Rotation or twisting should be

strictly avoided

In the surgical treatment of obstetrical paralysis the arm should be placed in a splint for three months to rest the paralyzed muscles and during this time the shoulder should be put through its full range of motion to prevent contraction and adhesion of the capsule. The best splint is the

platform splint. If the paraly as a sertensive or it it at first involved the whole arm and has cleared up leaving the upper arm paralyzed an exploratory operation is indicated in order that damaged nerve trunks may be sutured. WILLIUM A CLARK M D

Garlock J II Compound Injuries of the Extrem ities Am J Surg 1928 v 181

Garlock reports nine cases of compound fracture which were texted by debridement and siture. The bones involved were the tibia and fibulis a metazar pal bone and the ulas Pedicided skin grafts were frequently used at an early stage to cover shin de feets. The patients were under observation for a year or more after the taytures and all of the results were very good. In the setting of fractures of long bones, langaroo tendon was sometimes used in maintain the approximation.

ROBERT & FUNSTON M D

Jones Sir R Volkmann's Ischæmic Contracture
with Special Reference to Treatment Bu M
J 1918 u 639

This paper was the opening discussion to the Section of Orthopedics at the 1928 meeting of the

British Medical Association Jones first revews briefly the historical aspects of Volkman's con tracture The contributions of Volkmann and Let s on the condition have required little revision in the fifty years that have presed since they were writen, Pathologically, Volkmann's ischamic contractor is a condition of muscle degeneration followed by fibrous tusue replacement. Some observers have found it more marked on the ulnar than on the radial aide. It occurs most frequently in children between the ages of one and fourteen years follower an insury about the elbow. In 80 per cent of the cases the injury is a fracture. There is voice fire son of the wrist with extension of the metacarpo phalangeal joints and flexion of the fingers. The hand is frequently propated and the e bow fixed ; flexion The skin over the forestm may pe cold and blue Blisters and scars may be present The muscles are roov and wasted. Nerve involvement due to pressure or injury from a bony spicule is a frequent complication Beginning a few hours after the injury swelling numbness and loss of soluniary movements of the hogers develop and if a trease progress in forty eight hours to complete contrat ture Mild cases may be unrecognized manifestra themselves merely by slight impairment of ext and of the fingers. In some cases only two or the

fingers may be affected
Brooks and Jepson haveshorm that a combustus
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obstruction. Blood and recording the
notion and
one control of the production of the
Albhaugh the contracture has developed in sun error
cases in which no bandage has been applied tight.

bandaging should be avoided

the special control of the secondary Jones advocates the space of the

The prognosas is grave expectably of the norther are bash damaged the circulation of the fingers accountly impaired and the most stally freed among the control of the fingers are not the fine of the fine of the filter of the f

Jores has consistently used mechani al extension of the joints by means of extension splints and ha

enter had cause to regret it. Even when there is complete loss of muscle the relief from claw hand readers the procedure worth while. It has others the strength of the streng

MICHAEL L. MASON M D

Kuemmell New Experiences with Posttraumatic Diseases of the Vertebræ (Neue Erfahrungen ueber die posttraumatischen Wirbelerkrankungen) Zeitrabli f Chir. 1938 lv 786

The author first reviews the results of researches, in the common of the

demonstrated roentgenologically
Out present theories regarding traumatic disease
of the vertebra have heen considerably changed by
the work of Schmon! Schmool demonstrated that
by the action of the trauma the bony plate separat
us the body of the vertebra from the cartilaginous
disk above it—thes or called terminal lamma—is torn
and the nucleus pulposus of the intervertebral disk
the suppresent proliferates into the interior of
the suppresent proliferates into the interior of
the suppresent proliferates into the interior of
the suppresent proliferates and dising
the suppresent proliferates of the vertebral body
in the time that the suppresent proliferates in the
matter that multiple injuries of the vertebral body
of this nature may be associated with thin ally de
monstrable compression fractures.

In the discussion May stated that in one case he hal been able to demonstrate Schmorl's cartilaginous nodule formation roentgenologically

SCRANZ pointed out that the conception of Kuemnell's disease must be widened since not only gibbus but also kephosis and scohosis may be sequelated changes in the vertebral bodies resulting from relatively slight traumata

ZUR VERTH stated that in his opinion the car tilaginous nodules are of less importance than Kuemmell believes them to be as they are found in one third of spinal columns examined and also in

cases in which no trauma has been sustained. He regards them as abnormalities, like birthmarks.

Buddle (Z)

Dall Acqua V A New Method for Obtaining Lateral Projection of the Last Cervical and First Dorsal Vectebræ (Nuova metodo per la protezione laterale delle ultime vertebre cervicale e delle prime dorsali) Redioi med 1928 vv 843

The lateral picture of the spinal column is of great value in showing changes in the vertebuse that are not visible in the anteroposterior projection but while it is easy to obtain a lateral picture of most of the column it is difficult to obtain one of the last cerucial and first dorsal vertebus because the shadow of the clavicle and humerus are superimposed upon them. A number of methods have been devised for partially overcoming this difficulty, but Dall Agodeschies, a method which be think is better than

the methods previously suggested

In the author's procedure the patient is placed in the right lateral oblique or better the left lateral ohlique position with his body forming an angle of about or degrees with the table. The shoulder is brought down as far as possible and the neck sup ported on a wooden block or a sandhag over which the film is arched The film is carried down to the subclavicular region and care is taken to adapt it well to the soft parts To obtain clearer dissociation of the last cervical from the first dorsal vertebra the neck is slightly curved with its convexity toward the tube and the center of its conventy at the sixth cervical vertebra. The tuhe which is exactly per pendicular to the plane of the table is centered on the sixth and seventh vertebræ. Any inclination upward or downward will interfere with the clear ness of the picture

This method gives a lateral picture not only of the bodges of the seventh cervical and first and second dorsal vertebres but also of the proce ses so that the complete vertebre can be studied without an oblique projection such as is required in the method of Alberts. The classic is projected on the hody of the second dorsal vertebra or in the intervertebral space between the second and that dorsal vertebre without greatly disturbing the interpretation of the picture.

ADDED G. Viscous M.D. Dicture.

Ghormley R k and Bradley J I Prognostic Signs in the \ Rays of Tuberculous Spines in Children J Bone J In Surg 1928 x 96 Illibbs R A and Risser J C Treatment of ver

Hibbs R A and Risser J C Treatment of Ver tebral Tuberculosis by the Spine Fusion Opera tion Report of 236 Cases A Second Series J Bone & Jo nt Surg 1928 x 805

GROWNEY and BEADLEY report their conclusions from a study of 27 cases of tuberculosis of the spine at the New England I cabody Home for Crippled Children The roentgenograms in these cases were taken at four month intervals after a period of from two to five years. The cases were treated for the most part conservatively.

severe depression of a shoulder changes the angle of exit of the nerves from the spinal canal in such a way that tears occur in the upper roots of the plexus If the arm is pulled hard while it is abducted over the head the louer roots will be torn loose Rotation of the head also plays an important part. If the head is sharply rotated the large transverse process of the seventh cervical will press forward against the fifth and sixth nerve roots where they join Obstet rical palsy has been known to follow attempts to rotate the shoulders by twisting the baby s head and may develop also after breach presentation if the obstetrician pulls and twists the body while the bead is still fixed in the pelvis

Although it has been contended that a partial or complete dislocation of the shoulder joint is the pri mary lesion in Erbs palsy the weight of evidence indicates that this is secondary to the nerve lesion As the result of interference with the growth of the head of the humerus and contracture of the joint capsule the shoulder takes on a deformed and sub luxated appearance. In most cases the child is un able to supmate the forearm. This disability is due not to loss of muscle power in the supinators but to the fixed internal rotation of the humerus which prevents the palm from facing upward

When there is great difficulty in the delivery of the shoulders it is better to null with a finger in the axilla even at the risk of breaking a clavicle than to bull on an arm Rotation or twisting should be

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In the surgical treatment of obstetrical paralysis the arm should be placed in a splint for three months to rest the paralyzed muscles and during this time the shoulder should be put through its full range of motion to prevent contraction and adhesion of the capsule. The hest aplint is the platform splint. If the paralysis is extensive or if it at first involved the whole arm and has cleared up leaving the upper arm paralyzed an exploratory operation is indicated in order that damaged nerve trunks may be sutured WILLIAM A CLARK M D

Garlock J H Compound Injuries of the Extrem ities 4n J Surg 1928 v s81

Garlock reports nine cases of compound fracture which were treated by debridement and suture. The bones involved were the tibia and fibula a metacar pal bone and the ulns Pedicled skin grafts were frequently used at an early stage to cover skin de fects The patients nere under observation for a year or more after the injuries and all of the results were very good In the setting of fractures of long bones kangaroo tendon was sometimes used to maintain the approximation

ROBERT V FURSION W D

Volkmann's Ischæmic Contracture Jones Sir R with Special Reference to Treatment Brit M J 1928 11 639

This paper was the opening discussion in the Sec tion of Orthopedics at the 1928 meeting of the

British Medical Association. Jones first to was briefly the historical aspects of Volkmanns con tracture The contributions of Volkmann and Le : on the condition have required little revision in the fifty years that have passed since they were writen I athologically Volkmann's isobamic contractors is a condition of muscle degeneration followed by fibrous tissue replacement. Some observers have found it more marked on the ulnut than on the radial side. It occurs most frequently in rhildren between the ages of one and fourteen years following an injury about the elbow. In 80 per cent of the cases the injury is a fracture. There is volar fin son of the wrist with extension of the metatago phalangeal joints and flexion of the fingers. The hand is frequently pronated and the elbow fixed in flexion The skin over the forearm may be cold and Blisters and scars may be pre ent. The blue muscles are ropy and wasted herve intolverest due to pressure or injury from a bony spicule is a frequent complication Beginning a few hours of er the injury swelling numbress and loss of voluntary movements of the fingers develop and if untreated progress in forty eight hours to complete contract ture Mild cases may he unrecognized manifeting themselves merely by slight impairment of extended of the fingers. In some cases only two or three fingers may be affected

Brooks and Jepson have shown that a combinator of factors is necessary for the production of the con tracture Most important are an acute venous obstruction blood and serum extrarasation and swelling of the soft parts Pressure from without s not necessary though it i frequently present Although the contracture has det eloped in numerous cases in which no bandage has been applied best

bandaging should be avoided

Despute opinions to the contrary Jones advocates the flexion treatment of elbow fractures. He em phasizes honever that there should be no turnlat compression The dislocation must be reduced and bony fragments replaced No splints should be applied and no force used to obtain reduction If reduction is not easily obtained operative treatment must be considered. In all cases of elbow injury the band must be carefully watched for pain swelling lividity stiffness and loss of voluntary movements. If these warning signs appear the arm should be elevated and all compression removed Murphy's suggestion of incision and drainage i logical though not many successful results from it have been reported The prognosis is grave especially if the rene-

are badly damaged the circulation of the fingers is seriously impaired and the wrist is fully flexed with pronation of the band and fixation of the elbow When separate movements of the fingers are possible the prognosis is better than if only mass more ments are possible Some improvement can be looked for in almost every case

Jones has consistently used mechanical exten wo of the joints by means of extension splints and has tried. If this fails surmeal ankylosis of the joint

may be required Combined pelvic joint strain Symptoms of both lumbosacral and sacro iliac lesions may be found together Semi sacralization of the fifth lumbar vertebra should be sought for in such cases The treatment indicated is prolonged immobilization and

CHESTER C GUY M D support Swaim L T The Prevention of Deformaties of the

knee in Arthritis J Bone & Joint Surg 19 8 T 742

The most common deformity of the knee in arthritis is flexion and subluxation with outward totation. This deformity presents a grave problem since whatever procedure is used-conservative stretching manipulation or surgery-a completely successful functional result is rarely obtained after its development

The cause of flexion of the knee is the desire of the patient to relieve pain during the acute painful stage of the disease. After flexion takes place and complete extension has become impossible the see ond deformity aubluxation begins. The effort must therefore be made to relieve pain and tension hy placing the knee at rest without flexion. The author accomplishes this by means of a light plaster of Paris cast applied from the hip to the toes with the leg extended but not hyperextended. To prevent fixation, the cast is bivalved within three days In most cases complete rest of a few days is sufficient H EARLE CONWELL M D

SURGERY OF THE BONES IGINTS MUSCLES TENDONS ETC

Royle N D An Original Technique in Tendon Transplantation J Coll ge Sury Australaset 10 8 1 115

To obviate the slipping of a transplanted tendon the author uses the tendon as a living suture For example the biceps tendon is passed through the quadriceps tendon and the semitendinosus is then brought forward and passed through the quadriceps and biceps together these two tendons being thus anchored to each other as well as to the quadriceps In transplantation of the tibialis posterior into the Achilles tendon the former is split into two unequal strands the larger strand is passed through the center of the Achilles tendon longitudinally and the smaller is woven back and forth as a suture to hold the larger strand in place

In cases of paralysis of the tibialis anterior the peroneus brevis is brought down through the tihialis sheath from an incision above the ankle. A piece of the tibialis amounting to about a third of its diameter is then stripped from the tendon starting at the incision above the ankle joint pulled down through the sheath and used as a living suture still attached at its original insertion to stitch the peroneus brevis to the main tendon of the tihialis anterior

In case of wrist drop the propator teres is trans planted into the wrist extensors. A living suture is stripped from one of the extensor tendons from be low upward being left attached to the belly of the muscle and with this living suture the pronator teres is stitched into the two extensors of the wri t In cases of paralysis the small tendons of the fingers and thurnb can be used as direct living su

tures to stitch themselves into active tendons The tensor fascue can be used to reinforce a defective quadriceps by splitting off three or four strips and using them to suture the main body of the fascia lata into the quadriceps. The advantages claimed for this method are that the living suture does not weaken a tendon whereas foreign material causes weakening wherever it is passed through there is no postoperative slipping the patient walk ing with safety in three weeks and accurate adjust ment of tension is possible during the operation so that the final tension is midway between extreme relaxation and extreme contraction

MITTIAN A CLARK M D

Arthrotomy of the Elbow Supple Lenche R mented by Section of the Lateral Ligaments and Temporary Posterlor Dislocation for the Treatment of Articular Chondromatosis and to Facilitate Certain Osteosyntheses (De l'arthrotomie élargie iu coude par seeti n des l'aa ments latéraux et désartigulation temporaire p s térieure dans la chrondromatose articulaire et pour faciliter certaine ostéosynthe es) Lyon chir 1028 **TIV 450**

The ordinary arthrotomies of the elbow give a poor exposure Even when the olecranon is sec tioned the anterior synovial cul de sac is difficult to reach. In two cases of multiple foreign bodies and one case of victous muon of a fractured external condyle Leriche added section of the lateral ligaments to the method of arthrotomy in which the olecranon is sectioned. This allowed the elbow to be dislocated as in resection but to a less degree. After treatment of the lesions the ligaments were sutured with car gut and the joint was closed without drainage

In the first two cases in which the bone was not touched mobilization was begun on the seventh The patients all laborers had resumed their work four months later There was no tendency

toward fluil soint

Section of the olecranon is best done quite low down Simple detachment of a lamella of bone in cluding the tendon of the triceps has proved less satisfactory Either a 1 incision the branches of which follow the horders of the triceps tendon or a long lateral incision should be used to approach the

ALBERT F DE GROAT M D

Bailey H Volkmann's Ischæmle Contracture Treated by Transplantation of the Internal Epicondyle Br I J S g 19 8 xv1 335

Bailey reports a case in which Volkmann's ischæmic contracture developed in a child of four years following a transverse fracture of the lower

The prognostic signs are divided into (1) the changes observed in the tuberculous lesson itself and (2) the changes observed in the tuberculous abscess The most favorable type of case so far as perma

nent arrest of the disease is concerned seems to be that in which there is X ray evidence of fusion be tween the partially destroyed vertebra-

The authors state that the importance of the abscess accompanying tuberculosis of the spine can not be over emphasized. A decrease in the size of the abscess is a favorable sign Calcification of the abscess does not necessarily signify improvement The abscess itself may add greatly to the destructive process in the vertebra through direct pressure

HIGHS and RISSER review 286 consecutive cases of vertebral tuberculosis in which the spinal fusion operation was done at the New York Orthopedic Dispensary and Hospital in the period from 1015 to 1920 The results in 30 cases which were followed for an average of only two years were doubtful or unknown and are therefore excluded from the dis cussion. In 74 6 per cent of the others a cure was obtained. In 8 cases (3 1 per cent) the patient sur vived but was not cured There were of deaths a mortality of 26 2 per cent. Ten patients died from causes other than tuberculosis of the some the spinal lesion having been cured. Sixty per cent of the patients were less than five years of age at the onset of the disease and 40 ner cent were less than five years of age at the time of operation Sixty three per cent were less than ten years of age at the time of the operation Following the operation the nationts were transferred to the country branch of the hospital where the average stay was one year and seven months. There were 3 operative deaths an operative mortality of a q per cent. All of the patients who failed to survive the operation were poor risks. In a total of east operations performed in the period from 1011 to 1020 the mortality was only o s per cent

In conclusion the authors state that any treat m at an vertebral tuberculosis must be applicable to children as the condition occurs most frequently in childhood. They believe there is no justification for the hope that all of the diseased joints will become fused under treatment by conservative methods

Robert V Functor M D Cocheane W A Low Backache and Sciatica

Brif Med J 1025 II 696 The main problems to be considered in cases of

low backache are 1 The a atomical type or build of the patient He may be slender and delicate and unsuited to

heavy work.

The patient's posture and use of the body The porture may be incorrect and the body used in positions of mechanical disadvantage

3 The roentgenogram of the spine Absence of signs of pathological changes in the roentg-augram may be due to a lack of lateral and stereoscoric

4 The possible presence of an intrasic spingl lesion such as osteo-arthritis in cases of allered injury in which the symptoms are out of proportion to the trauma

The relation of anatomical variations to hork ache and sciatica

6 The mental problem and the questin of

malingering In the diagnosis the patient's general build and

attitude the presence or absence of the normal lumbar curve and of a lateral deviation restriction of movement and pain on movement of the spine and hips in lying sitting and standing spasm of wasting of muscles the presence or sosence of awelling and tender points in the lumbo-saco iliac region the finding of rectal examination and the nerve function in the legs must be considered

The etiology pathology and treatment of state traumatic strain general postural strain lumbosacral strain sacro that strain and combined point

ioint strain are discussed

Acute traumatic strain Acute traumatic sira a is a rupture of ligaments and muscle fibers due to violence and has a sud len oaset with well localized symptoms It should be treated first by recumbered on a firm mattress with the knees e'es ted and the back strapped with adhesive Later heat manage and graduated exercises are advisable By a treatment and the correction of faulty pos --chronic disability is prevented

General postural strain This ca see a g neral aching which is not confined to any one joint as usually occurs in slender astheme perso i who are engaged in a fatiga ug occupation or adop faults attitudes resulting in poor posture. The treatment should consist in rest support and po tural it-

education

Lumbosacral strain In this condition the distress is usually asymmetrical and sciatica is a frequent symptom Lumbosacral straia occurs most ofter an stout persons with a pendulous abdom a Lateral bending of the lumbar spane is freet in one direction than in another and flexion of the hip with extension of the knee is himsted on the affected side Disturbances of nerve sensibility and muscle atrophy of the leg may be present. The treatment is recumbered with the knees flered the applicat on of hot foments tions to the back for forts five minutes three times a day exercises to flatten the lumbar spine whea the sorene s has gone and the application of a platter lacket when the patient is allowed up. When the patient has learned to stand correctly the plater facket should be discarded

This is commonest in the slo Sacro-sitae strain der visceroptopic type of person with a poor pisture and a lordosis The upper part of the sacrar more forward with resulting strain. When the patient is standing and bending far forward he flexes the Lore on the affe ted side The treatment of the mides et ts similar to that of the lumbosacral type In more resistant cases for the flexion of the hip with the knee straight and the patient anasthetized ma be (b) tendon transplantations) in cases of infantile paraly is with marked growth disturbances Im mediate success cannot be expected however as the growth of the nerves from the healthy into the paralyzed muscle takes a long time at least two years.

SCHANZ recommended lumbar puncture in the treatment of infantile paralysis since under its influ ence the reparatory processes develop more rapidly and completely than otherwise. He does not oppose the development of contractures because such opposition is futile and because at a later operation it is desirable that the process shall to a certain extent have been completed. On the other hand he attaches great importance to getting the patient to work early Work in his opinion is much more beneficial than gymnastic exercises In severe paralysis of the foot he performs luxation arthro desis which is similar to Whitman's operation and instead of Stoffel's operation which is often followed by recurrence he performs operations on the mus

FRUEND stated that to prevent recurrences after Storffel's operation it has been his practice since 1019 to fasten the central nerve ends after the division as high up as possible on the nerve trunk with a fine silk suture so that on growing out they cannot reach the muscle. He has never seen recur rence follow this method DUMONT (Z)

cles and tendons

Abbott L C and Credo C H Operative Length ening of the Femur Southern if J 1928

The authors report in detail the technique of operative lengthening of the femur and describe the spirt they have devised and the method of its application

A serew is inserted just above the condile and about t in below the lesser trochanter. An incision is then made along the outer side of the femur and a Z shaped osteotomy of the femur about 5 in long is done with a motor saw and osteotome. The deep fascia a totibial band and biceps tendon are then sectioned obliquely Clamps are used to keep the fragments in place \(\) drain is inserted in the upper angle of the wound and suturing is done with catgut and with silk The turnbuckle apparatus is then

applied After the operation attention is paid to keeping the fragments in accurate alignment and preventing injury to the soft parts The drain is removed after forty eight hours. When the inflammation has subsided usually after tive or six days the lengthening process is begun As this proceeds the distance be tween the pins on the inside is accurately measured A gain of about s in a day may be expected Roentgenograms are taken each week to check the position and amount of lengthening. An average time of about four weeks is required to regain 2 5 in I rotected weight bearing is allowed after five months and full weight bearing after from seven to eight months

The operation has been performed upon eight femora The oldest child was sixteen years and the youngest ten years of age The greatest length se cured was a can and the least I can There were no infections

The authors report the eight cases in considerable detail They do not advocate the method as a rou tine procedure but believe it of great value in selected cases ROWERT V FINSTON M D

Campbell W C End Results of Arthropiasty of the Knee I Rose by Janual Sure 1028 x 8 2

A knee rount which was onened about a year after arthroplasts because of slight locking showed a definite joint space about one half the capacity of a normal joint. The articular surfaces were smooth and glistening and there was a small amount of sount fluid A few adhesions under the quadriceps tendon did not interfere with motion. The joint lining membrane resembled in every detail the free transgilant of fascia lata that had been put in at the original operation. Histologically this membrane consisted of three layers (1) a dense fibrous layer (2) abrocartilage and (3) bone. In some places there were fibrous bundles passing from the cartilage layer to the bone. A new functional joint had there fore been formed Extension was complete and there was flexion to oo degrees

Similar findings were made in the cases of joints which were opened because of instability

after arthroplasty The presence of a new joint space after arthro-

plasty can be demonstrated also by roentgenograms. Osteoporosis is evident for from three to six months hut after that length of time the bone appears normal in structure. A very small number of the author's cases showed bone proliferation were usually cases in which acute infectious arthritis had been the original lesion. There may be no relation between function and the roentgen ray findings but as a rule a smooth regular joint surface is associated with functional efficiency

In appraising the results of arthroplasty of the knee the nature of the original lesion must be con sidered. The results of operation in young adults following acute pyogenic infection in a single knee ankylosed at an angle of not less than 140 degrees were successful in from 80 to 94 per cent of the cases whereas the same operation following virulent osteo myehtis extending through the joint was always unsuccessful

This article is based on 111 cases but is concerned chiefly with 2 cases in which from four to nine years have elapsed since the arthroplasty. The ages of the patients ranged from fourteen to fifty years. The final result as estimated by the patient was excellent in 19 cases and poor in 3 The motion obtained ranged from 45 to 140 degrees Walking ur stairs was satisfactory in 14 cases and walking downstairs was satisfactory in r Stability was good in 18 cases Slight or occasional pain was present in 5 Cases HILLIAM A CLARK M D

end of the humerus which received prompt treat ment the arm being put up in flexion and supina is no improvement was noted after dibgent mass age for three months a modified Page operation was performed

The origin of the flevor muscles was carefully dis sected from the upper third of the ulna the main common origin including the internal epicondyle separated from the humerus and the condyle with the attached muscles then fastened in a prepared bed on the inner side of the shaft of the ulns at the juncture of the upper third and the lower two thirds

After the operation massage was again instituted Seven months later the function of the arm wa almost perfect ROBERT C LONERGAN M D

Henry A L An Operation for Making the Fore arm Prehensile After the Lo s of a Hand But J Surg 1918 zvi 183

The author describes a unique reconstruction operation performed on a man who e left hand had been amputated at the wrist

I've longitudinal incisions were made one in the midline of the flexor aspect and the other on the dorsal side a fingerbreadth radial to the middle hipe In order to provide a web at the base of the new digit these incisions were made to approach the ulna at their proximal ends. The inci jors were deenened to the bone-the volar incision between the tendons of the flexor carpi radialis and the flexors of the fingers and the dorsal incision between the radial extensors of the wrist and the common ex tensors of the fingers The periosteum was divided longitudinally and a 5 in rod was separated from the lateral aspect of the radial shaft. The tendon of the flexor pollicis longus the radial artery and the tendon of the flevor carps radialis were then trans ferred en bloc to the flexor surface of the rod and the skin was sutured around the new digit so formed The ulpur and radial shafts were shortened sufficiently to allow a medial flap of skin to be turned like a hood over their radial aspect. The distal end of the limb resembled a boxing glove

The rod became ankylosed with the radial shaft but after about three months the patient was able to appose the new digit to the ulnar portion of the extremity by prouation and to release it by sumna tion He then soon became able to grasp objects to write ctc

The author describes also the Krukenberg opera tion which converts the radius and ulna into two resembling the blades of a crocodile forceps DANIEL II LEVINTUM M D

Brandes Clinical Experience with Tenoplasties on the Legs (Aus der kunischen Erfahrune mit S hnen plastik en am Bein) Zentralbl f Chir 1928 lv 807

Brandes advises a simple technique for tenoplasty with careful attention to the mechanical and physiolonical relationships of the muscles and joints and the utilization of all operative possibilities (periosteal and tendinous methods tendon sheath substitu

tions etc.) The operation must not be performed when the patient is too young nor should insufficiently functioning muscles be transplanted I is emphasized especially that templasty should not be limited to case with paralysis (infantile paralysis) since it often gives very good results in flat foot (the method of Hass or that of the author) It is important that before the tenoplasty operative nonstruction of the shape or simplification of the most mechanism should be undertaken (extroation of the talus according to Whitman in talines cal ancu arthrodesis of the lower part of the ankle joint in varus or valgus position of the calcaneus) For paralytic talines calcaneus the author recommends as a preliminary operation extinuation of the tales with replacement of the troubles tali on the pushe back and fre, hened calcaneus So far as possible the dividing or slitting of tendons should be avoided. Such procedures are reduced to the minimum by good separation of the plane of operation for a stance with ascending and descending plastic work

on both tibialis anticus and tibialis posticus mustles. In cases of claw foot Brandes has bad good results from Scherb's transplantation of individual long extensor tendons to the metatarsal bones as er correction an Schultz's osteoclast With a tenplasts it is possible also to combine a partial terodesis of the foot as for example in per valgus para lyticus (in the anterior part of the foot-platic repair and removal of the elements of the incomplete flat foot by displacement of the tibials postered muscle)

Since tenodeses and fasciodeses give results that are usually unsatisfactory in the long run and the tendons used become stretched Brandes endeavors in tenodeses of the ankle joint to place the feadons in shallow grooves chiseled out of the bone bene the periosteum and to suture them there is a test state so that they become very short articular by aments This is done in one or several stages

In conclusion Brandes calls attention to the gree importance of improvement in the technique of tenoplasty because of the poor results of the operations on the nerves

In the discussion May stated that in g real arthrodesis should be postponed until adolescence For per calcaneus valgus be recommen fed II hitman operation. He stated that theoretically there erm to be reasons against a plastic operation on the quadriceps if the gluteus maximus the flexors of the knee and the musculature of the call of the leg a preserved (injury to the function of exten to of the Luce) For paralysis of the deltoil he pelet arthrodesis in the cases of adults. In the cases of children and youths an attempt at plastic opers ton on the muscles is indicated (combined myoplast) with the u e of the trapezius and the pectoralis

DEUTSCHLAENDER stated that he had been favor ably impre sed by indirect neurotization of the paralyzed muscle by its attachment to a healthy muscle combined with static equalization in length

major)

Osgood R B Compression Fractures of the Spine

Compression fractures constitute nearly one half of all spinal fractures. The apparently mild nature of the injunes in these cases is an important feature

Farly diagnosis is essential

Such fractures result most commonly from falls or blows which cause jackkinfing of the spinal column with crushing of one or more of the spongy vertebral bodies. In from 70 to 80 per cent of the cases the eleventh or twelfth thoracic or first or second lumbar vertebra is molyed.

In some cases the agms and symptoms may be so which as to pa a wnotined. Therefore following marked hyperflexion of the spine the possibility of a compression frincture should be considered and lateral and anteropasterior roentgenograms should be taken. The thorif early symptoms are point referred to the region of the lesson local tendemest and muscle sparse which limits motion. Kuemmed distinguished three stages in spinal fractures (i) the stage of the mustli injury? () a period of comparished will be up and (3) the stage in which angular kyphosis and pain develop.

in the treatment the general condition the duration of the neurological signs and symptoms and the nature of the lesion must be considered

If the patient is in severe shock immediate opera tion is contain indicated unless it offers the only chante of saving his hie. If the neurological signs appear immediately after the injury there is slite tope for recovery. If they come on gradually and increasingly every effort should be may be to treat the condition by manipulation or operation. In cases with increasing or stationary neurological signs and blood in the spinal fluid laminection, may be indicated. Care must be taken to prevent cystitis.

and bedsores Fractures of the sacrum and coccy v due to crush ing heal readily when strapping is applied and activit is restricted for a short while. In cases of crushing fracture of a single vertebra the treatment indicated is immobilization and complete recum bency for from six to eight weeks followed by a gradual return to activity Normal activity may be expected in from four to six months. The immobil lization may be obtained by means of a plaster shell or jacket or a Wallace spinal bed The Davis metbod of reduction by hyperextension is promising. Long. standing cases with disability and pain may require ank) losing operations. It should be remembered honever that it is postural correction a d not ankylosis that insures freedom from pain and dis ability and that postural correction is accomplished much more easily before than after an operation DANIEL II LEVINTHAL M D

Hart V L Spontaneous Distocations of the Hip Joint During Early Life Report of Twenty Eight Cases Arch Surg 1928 xvii 587

Dislocations of the hip joint may be classified as (1) congenital (2) acquired traumatic and (3) ac

quired non traumatic also termed pathological or spontaneous In the period from 1923 to 1925 twenty eight cases of spontaneous dislocation of the hip were admitted Ann Arbor Michigan

In sixteen of the twenty eight cases there was metastatic septic arthritis of the hip joint secondary to remote infection. In five the involvement of the hip had been preceded by an infection of the upper resouratory tract In three there was a history of acute osteomy elitis and in two a history of discharg ingear. In the remaining six cases the remote sources of infection were pneumonia with empyema aspira tion pneumonia and empsema following tonsilled tomy scarlet fever acute rhoumatic fever suppura tive axillary adenitis and wound infection of the face Cultures of pus obtained from eight of the sixteen patients with metastatic septic arthritis showed staphylococcus aureus in four cases strepto coccus hamolyticus in two cases staphylococcus albus in one case the tubercle bacillus in two cases and dinfocoucus oneumonize in one case

Four of the twenty eight spontaneous dislocations of the hip were due to anterior poliomyelitis. In each of these cases the head of the femur could be easily displaced and reduced by manipulation and there was a flexion adduction contracture deformity of the involved him.

In four other cases the etiological factor was con

zenital cerebral paralysis with paraplegia

of polyarticular arthritis or Still's disease and the hip was in a position of flexion adduction and in

ternal rotation. In two cases a positive diagnosis of tuberculosis of the hip point was made. Dislocation is unusual in this condition because of the insideous onaste of the infection and the scar formation it produces. During the acute stage of tuberculous arithmis with muscle spann, the position of feezon abduction and expensive the position of feezon abduction and expensive the formation of feezon abduction. The position is meant and internal potation before the formation of considerable fibrosis dislocation is inseminent.

In all of the twenty eight cases the dislocation occurred before the age of seventeen years. In the child the acetabula are very shallow and displace

ment is easier than in the adult

In three of the cases reversed the dislocation was bilateral. The unilateral dislocations involved the left lips in sixteen cases and the right lip in nices. In twelver of the twenty live cases of unilateral dislocation there was a pathological condition of the other hip. In all except one of the twenty leght cases the dislocated extremity was in a position of fixion adduction and internal rotation. In the one exception a case of purulent arithritis the position was that of flexion abduction and external rotation.

The local pathological condition of the hip joint varied according to the etiological factor the age of the disease and the period of weight bearing. The pathological changes in the sixteen cases with septic 770

FRACTURES AND DISLOCATIONS

Cowan J F Non Union of Fractures An Experi mental and Clinical Study Ann Sur 1928 lxxxviu 740

Cowan states that 12 young animals the penos teum is firmly adherent to the bone in the epiphyseal region but along the shaft is attached more loosely and is separated from the bone by a layer of rather loose areolar tissue in which are many esteal fibro blastic cells In adults the periosteum is more firmly adherent and often is lacerated at the fracture The cortical bone is relatively thicker than in the young the haversian canals are smaller and the osteal fibroblasts are fewer

In sample fractures hamorrhage occurs under the periosteum along the shalt and for a short distance into the medulia With laceration of the periesteum the blood extravasates into the soft tissues. Fibrin forms in the clot and serves as a bridge across the fracture and as a stimulus to fibroblastic problera tion As early as the second day fine capillars buds can be seen growing into the clot from the periosteum and medulin This forms an ordematous granulation tissue which is the beginning of callus In one week this procallus granulation tissue is well develope ! Ossilication proceeds along the blood vessels thus forming small tubule of hone Cartilage is also depo ited When pressure is exerted on the callus by the fragments there is a tendency toward exces sive castilage production With lifting of the perios teum parts of the cortical bone are deprived of ear culation and lie These parts become irregular from

erosion and are replaced by the new bone growth The principal functions of the periosteum seem to be to form a bridge between the fragments and to

erve as a limiting membrane confining the blood and clat in which the callus develops

Union depends upon a vascular communication between the procellus granulation tissue of the fragments. The meduliary callus depends upon the amount of hamorrhage into the medullary cavity It is usually secondary in importance to the perios

teal callus but forms an appreciable bridge Ro atgenograms of ununited fracture in human bones show a medullary osseous callus filling the ends of the fragments and forming a bone buttres an increa e in the diameter of the end of one or both fragments a decrease in the end of one or rarely both fragments or convexity of the end of one frag mert usually the upper with concavity of the end of the other and a cleft between the two

Histological examination may show (1) firm fibrous union (2) loose fibrous bands or (3) a pseudarthrosis with cartilage and sonovial mem brane The fibrous mass is avascular

The one finding common to all of the unusuted fractures examined by the authors was separation of fragments This can occur only with laceration of the perios eam Its importance is most evident in fractures of the patella and the olecranon in which suture of the fibroperiosteum is necessary to

secure bony union Ingrowth of fibrous tissue from the periosteum in cases of wide separation of he ments will prevent a vascular communication be fuces the procallus granulations and thus delas or prevent bony union Bone production takes place but the bone forms across the end of each fragment in a direction transverse to the long axis of the shift enstead of parallel with the shaft across the fracture bne Ohviously the closer the approximation to the fragments the less chance there is for this to Occur

In the surgical treatment of an ununited fracture the attempt should be made to (s) elegate the periosteum for a short distance on either side of the fibrous band () remove the fibrous tissue from be tween the fragments (1) open the medullar spaces and (4) prevent recurrence of fibrous tuspe ingrowth between the fragments To keep the medulla from closing up again Cowan makes a trough long told mally across the fracture just as for the introduction of an inlay graft To prevent fibrous tissue from grow ing in again he rolls a thin piece of cortex from a rib anto a hand and anserts it around the ends of the fragments at the line of separation Equally good results have been obtained with a piece of ogg men brane The ends of the medullary spaces and the space between fragments fill up with blood ware later forms a clot and is organized into carlus

Murray C R Fracture of the Claricle Ling Clar 1 1m 1028 VIII 2075

HILLIAN & CLURK MD

The author describes the application and we of the clavicular cross in the treatment of fract re of the clayacle He prefers it to other methods because at allows function in the affected extremity can e be atrophy and requires little or up after treatment DANIEL H LEGISTER MD

Eilenbary C F Fractures of the Elbow Through or Near the Lower Epiphysis of the Humerus J Bone & Joint Surg 1928 x 757

Before the reduction of a fracture of the elbows attempted a roentgenogram should be made Reduction is best carried out with the part held under the fluoroscope and with the patient under general anasthesia In lieu of the fluoroscope another roeat genogram should be made before the splints are applied and before the patient recovers conscion ness If the findings are not sati factor) arother

attempt at reduction should be made Fleung the forearm without at the same time reducing the posterior displacer ent will merely rotate the lower fragments transversely Flex on will read ile belp to reduce a fracture but will not accomplish reduction

lolkmann's contracture is best presented by Leeping the patient under ob ervation after the le duction in order that the splints may be readjusted whenever necessary A few hours of ne lect mer lead to a condition that can never be corrected H LABLE CONWELL M.D.

older children who have well developed femoral heads and acetabula

ALLISON emphasizes the importance of early re duction and gentle reduction in congenital disloca tion of the hip. He is in favor of open reduction as it gives promise of a higher percentage of final cures than closed reduction Because of the changes in bone which result from long continued immobilization the plaster cast should be removed as soon as possible Open operation shortens the period of immobilization Some of the obstacles to be over come are (r) shallowness of the acetabulum (2) irregular shape of the femoral head (3) torsion of the neck (4) shortness of the abductor muscles (5) shortness of the posterior muscles fascia lata and iliotibial band and (6) shortness of the ilio femoral band. In some cases distortion and other developmental anomalies in the upper femoral region preclude the possibility of a good functional bip even when reduction is accomplished

GILL reports the results of seventy five open operations for old or irreducible congenital dislocation of the hip. He divides the cases into three groups according to the type of operation required and the anatomical and functional results which may be expected from it Cases of the first group are those in which the acetabulum is shallow and the femoral head projects beyond its upper margin but is not completely dislocated. In the second group are cases in which there is complete dislocation but by open operation the head of the femur can be re placed in the acetabulum without great force or tension. The third group is made up of cases in which there is upward displacement of the head of from 1 to 4 in and the head cannot be replaced in the original acetabulum at the time of operation or can be replaced only by the use of excessive force

will performs three types of operation In Type 1 a bone shelf is turned down from the outer plate of the thum over and behind the unreduced head and no attempt is made to use the original acetabulum In Type 2 partial reduction is effected into the original acetabulum and the acetabulum is enlarged upward by plastic reshaping of the roof In Type 3 for cases in which complete reduction of the bead requires deepening of the acetabulum and the turn ing down of an artificial roof and the femoral neck i, so short that the trochanter impenges on the thum preventing retention of the head in the ace tabulum the trochanter is cut off and re attached down on the shaft

Deformities of the head of the femur are fre quently encountered The mushroom shaped heads are easily injured in reduction The entire cartilage may be knocked off When this occurs the result must be bony ankylosis Version of the neck has never caused trouble enough to justify osteotomy In cases of bilateral dislocation good mobility is secured in one bip before the other is treated

In all of Gill's operatively treated cases a strong stable joint has been secured. In those in which operations of Types 1 and 2 were performed there is good mobility Of those in which the Type a operation was done anky losis resulted in three cases and in the others the mobility is not so good as in the cases treated by operations of Types I and Pain has been present in only two cases. In practically all cases function has been improved and enderance has increased. In general the author is an exponent of the open method although he at tempts closed reduction in the cases of all patients under six years of age WILLIAM A CLARK M D

Jones J P Interarticular Dislocate Patella Best J Surg 1928 vvi 338 Interacticular Dislocation of the

A girl eleven years of age injured ber right knee by slipping on the edge of a pavement and over a bicy cle in the dark. The roentgenogram showed that the upper edge of the patella had been pulled down and nedged in the intercondy lar notch of the femur As manipulation under anasthesia failed to reduce the dislocation open operation was done. It was necessary to lever the patella from the intercondular notch but when once freed it retained its normal position without suture. The quadricens extensor insertion had been stripped from the upper and anterior surface of the patella

After closure of the wound a plaster cast was applied This was norn for four weeks being taken off only for massage and movements. Uneventful recovery resulted

The mechanism of the type of injury sustained in this ca e has never been satisfactorily explained The author suggests that the first movement is an extreme and forcible flexion of the knee which leaves the upper end of the patella on a level with the inter condylar notch of the femur and that this is rapidly followed by extension in which the patella remains in its new position and the quadriceps stripped from the anterior surface of the patella acts on the lower border wedging it firmly between the two condyles of the femur ROBERT C LONERGAN M D

272

arthritis of the hip joint ranged from a serous to a purplent arthritis with or without destruction of bone and soft tissue

In the second and third groups of cases with in volvement of the lower and upper neurone respec tively there were no artbritic changes. The local pathological condition consisted in a disturbance of the normal muscular balance resulting from the flaccid paralysis of anterior pohomachtis and muscle incoordination with increased muscle tone due to a cerebral lesson

In the fourth group the local pathological condition varied from slight to extensive bone and joint destruction with disturbance of the normal muscle balance due to muscle spasm during the acute period

of the disease

The author concludes that a derangement in the muscle balance is the one pathological factor com mon to all eases and shoul I be considered the essen tial factor in the mechanism of development of the

dislocation Recently it has been demonstrated by Jones that the mechanism of production of the dislocation is a derangement of the normal action of the muscles surrounding the hip joint and is not dependent upon lestoos of hone or ligament. The normal muscular arrangement about the hip joint may be altered by muscle spasm muscle paralysis and muscle incoordination. Muscle spasm is always present during the acute phase of hip-joint infection and unless treatment is given the extremity assumes an attitude of flexion associated with either abduction and external rotation or adduction and internal rotation During the acute stage of hip joint infection the position most frequently assumed is flexion abdue tion and external rotation without the production of dislocation. In the position of flexion adduction and internal rotation which is not uncommon dis location is immunent. The first position is one of

stability the second one of instability The charged signs and symptoms of spontaneous dislocation of the hip are similar to those pre ent io congenital dislocation-a definite limp and lordosis when the subject is walking actual and apparent shortening and the presence of the greater tro-

chanter above Nelaton's hne The author believes that spontaneous dislocation of the hip joint is preventable and that emphasis should be placed upon preventive treatment because when the deformity is once established any attempt at its correction requires a long period of hospitaliza The necessary mechanical apparatus should be applied to prevent the patient from assuming the position of instability During the acute stage of any infectious process involving the hip joint the muscle spasm may be relieved by the application of skin traction and the extremity placed in extension and abduction the position of stability If bons ankylosis is anticipated a solid plaster spica may he applied in the optimum position for ankylosis of the hip joint In the author's opinion the optimum position for ankylosis is neutral as regards abduc

tion adduction and rotation and the position of flexion should depend entirely upon the patients occupation In children the hip joint is placed in flexion of about o degrees

The treatment of patients with an established de formity is a complicated problem Deformities of other joints may demand correction before the dis focation is reduced. In dislocation of the hip result ing from muscle spism the prognosis for function is furly good Incision and drainage of abscesses should be done if necessary and skin traction ap plied to the dislocated extremity. The traction should be applied first in the line of deformity and with gradual cessation of the muscle spasm the line of traction changed by degrees to a position of ex tension and abduction

The degree of disability derends upon the dis turbance of the weight bearing line the true and apparent shortening the extent of bone and joint destruction the degree of mobility and stability whether the hip joint joy of ement is unilateral or hilateral and the pre ence or absence of associated

deformaties and of pain Stability and mobility are both of importance in the function of the hip joint but stability is the more important A stable and painless hip joint may be obtained by skeletal traction followed by arthrodeus of the joint In the presence of bony analylosis a subtrochantersc osteotomy may improve the weight bearing line and correct the apparent shortening Skeletal traction followed by reduction of the dislocation is indicated when the bone and joint de struction is slight NORMAN C BULLOCK M D

an Operation for the Reduction of Swett P P Certain Types of Congenital Dislocation of the

Hip J B ne & Jo (Sn g 1928 x 675
Allison N The Adaptive Changes in the Hip in Congenital Dislocation and Their Importance

In Treatment J Bone & Jos 1 Surg to 8 x 697 Giff A B Operation for Old or Irreducible Con genital Dislocation of the Illp J Bone & Joul

Surg 19 8 x 696 SWEIT proposes subtrochanteric osteotomy for arreducible dislocations of the hip and has treated five cases by this procedure. After the osteotom) through a Smith Petersen incision the head can easily he placed in the acetabulum. The fragments of course overlap and there is about an inch of shortening but the leg is longer than before the reduction and after bealing of the osteotomy there is good function. In some cases the roentgenogram shows a badly distorted relation of the head neck and shaft but this does not seem to interfere with function Convalescence is longer than after simple fractures and postoperative care is most important Swett suggests that redressment and the application of a new cast after three weeks or traction in abduc tion summediately after the operation might result in better alignment and more length. The operation provides a means of reduction when all other meth ods fail and is justified especially in the cases of

MacLeod J M II Sicard Forestier Gaugler and Others Discussion on the Treatment of Vari cose Ulcers by Intravenous Injections Proc Roy Soc Wed Lond 1928 xtu 18 3

SIGNED FORESTIER and GAUGIER who read the fint and chied paper in this sy mposium summanized the conditions favoring the development of various users as (1) general factors affecting the blood vessels such as a hereditary predisposition endo crue symapathetic dyserasia age and syphilis and (1) local or mechanical or development of the sum and (1) local or mechanical might return a hymorrhage local infections and eceims of the slam and local infective publication. The general influences take the form of weakness of the walls and valves of the vesin

and of the supporting perivascular tissue.

In postphlebitic ulceration developing in an ordenatous leg with venectasia obliterating injections are contra indicated. The treatment should

consist in rest massage and support
Dirty serpiginous ulcers with eczerna pigmenta
tion and peripheral sclerosis are likewise unsuitable
for injection and should be treated by rest disinfec

tion vaccine ultraviolet light and surgery
Cases of ulcer with moderate or mild local dis
turbance should be treated by intravenous oblitera

tive injections and local treatment of the lesion.

Mired syphilitic and varicose ulceration should be treated by both anti-syphilis methods and obliterative injections.

The obliteration as brought about by the spectron of 2 or 3 c cm of a 20 to 6 oper cent solution of solution salicy late in water. Quinne wrethane by pertone saine solution solution citrate and 50 to 6 per cent glucose have also heen used but are not so good. A tourinquet may or may not be applied. The impections are given with the patient of the control of con

Illicaus reported good results in 200 cases in 36 of which there was active ulceration at the time of injection. He believes that in the production of time varicose ulcers trophic traumatic and infectious factors are of prime importance. The less in fection enters into the picture the greater the success of the obliterative injection method.

From the several thousands of cases in which obliterative injections have been made without are dent the conclusion may be drawn that the method is that the conclusion may be drawn that the method is the conclusion of the drawn that the confrom which the injected voit may become infected and excessive muscular activity should be avoided for about three weeks after the injection.

In the further discussion other small series of cases were reported. Mention was made of the fact that the intravascular injection of irritative substances causes a true endoventis with the formation of a very tough and adherent thrombus which is

quite different from an intravascular clot. It was emphasized that at the time of injection the himb must be perfectly at rest and flacted and after the injection it should remain so for a half hour. If there is an active return flow of blood in a verification injection is contra indicated. This is easily determined by placing two fingers on the vein a short distance apart. If the vein fills promptly on the removal of the lower finger is may be concluded that there is an upward flow. Plood Brew Min.

McPheeters II O and Rice C O Varicose Veins Complications Direct and Associated Follow ing the Injection Treatment A Review of the Literature J im 11 is 1028 xc1 1000

The authors emphasize that the treatment of varicose vens by the injection method should not be attempted by those who are not aware of the complications as errors in technique may bring this very satisfactor, mode of treatment into disrebute

The mortality rate following the injection treat ment of varicose veins is much less than that following operative treatment. As yet no one solution

has been found entirely adequate for every purpose. The injection treatment of varicose veins has passed the experimental stage and has been proved a very rational procedure which should be accepted to supplant other well recognized methods.

BLOOD TRANSFUSION

Freezer C R E Hæmatemesis and Purpura Splenectomy Death from Perforation of a Duodenal Ulcer Guys Hosp Rep Lond 1928 Ivi un 465

let un 465
Mefaena and Purpura Splenectomy Recovery
Guys Hosp Rep Lond 1938 letvun 469
Rake C W Preliminary Note on a Case of fize

matemests and Spontaneous Economics Guy Hosp Rep Lond 1928 Excellent Spontaneous Control Palmer F W The Heemorrhagic Diathests in a Child of Twelve Simulating Chronic Gastric Ulcer Geyz Hosp Rep Lond 1928 frvm 427.

FEREZER reports the case of a box moteten years old who had three attacks of purpure homorrhage in a period of three vears. The first two attacks cased spontaneously. The onset of the last attack was characterized by pain in the left side of the abdomen followed by showers of peticibic in the skin and bleeding from the nose and mouth. The first might the patient was in the hospital he passed a large tarry stool and there was blood in the unnear the stool of the stool o

Although the patient was in a very weakened condition with a himoglobin value of only 30 per cent and an erythrocyte count of only 2 200 000 splenectomy was done After the operation there was almost immediate improvement in the patient's condition and there were no further hemorrhages to the fifth day futulence developed the abdomen

when fainting occurred

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Gould E P and Pates D H Primary Throm bosis of the Axillary Vein A Study of Eight Cases Brit J Surg 1928 xv2 208

The eight cases of primary thrombosis of the avil lary vein reported were those of males ranging in age from twenty three to forty years. Six of the patients were between twenty and thirty years old. The right arm was affected in all but one case. The onset in all cases seemed to have been related to a

muscular effort or strain

Most investigators agree that trauma is an important factor. The author injected the vein of postmorten specimens with plaster of Paris. One experment above, the property of the property of most approximation of the property of the subtion of the property of the sub-to-may asseen. In addition, a practically constant brings as early of the sub-to-may of the sub-to-may asseen and the sub-to-may of the sub-to-may asseen. In addition, a practically constant brings valve was found at this level so suisated that presure of the sub-class unitary of the sub-tosure of the sub-class unitary of the valve. The authors are of the opinion that a rupture of the vein is the unportant gathological lesson of a predisposing factors expursionly effort and abduction of the arm are of importance.

The history and clinical features are usually typical. In doubtful cases the possibility of syphilis and tuberculosis should be considered. Any bony abnor

mulity will be revealed by the X ray

The prognoss is uniformly good Some disability and swelling of the arm may persist for a time after excessive physical exercise.

The treatment consists in rest elevation of the

part and massage after two or three neeks
WILLIAM J PICKETT M D

Dawbarn R \ Earlam F and Evans W It
The Relation of the Blood Plateleta to Throm
bosis After Operation and Parturition J Path
& Bacteriol 1918 xxv. 833

After operations and child buth and especially after consurers a section the number of platelets in the blood beginn nee about the fourth day increase to a main at about the tenth day and there after the control of platelets as seconded with an increase and platelets with a decrease in the blood throughout the control of platelets with a decrease in the blood throughout the platelets with a decrease in the blood control of the platelet reaction. These conditions are most frequent at about the tenth day after operation or restriction.

The authors found no change in the platelet count after hamorrhage anaesthesia or bed rest and no constant variation in sepsis. The platelet reaction

was excited by fractures A similar rise was noted during convalescence from acute infections such as lobar pneumonia

It is suggested that the features common to the various stimuli which have been identified are usue njury and the absorption of breakdown product Jacon M Mosa M D

Allen A W and Smithwick R II The Use of Foreign Protein in the Treatment of Penpheral Vascular Diseases The Results of Intractious Injections of Typhoid Vaccine J 4m M Au 1928 xc 1161

Non specific foreign protein in the form of intravenous injections of typhoid vaccine was u.ed in the treatment of twenty five cases of pempheral valuables as what disease.

Two of these cases were of waxomotor upon Thritten were cases of presentle gargene upon cally thrombo anguits obliterans and six were cases of artenoced-crotic gargene (including those with associated diabetes). Four cases although the their cases of the case of the cas

The treatments varied in number from one to fifteen and were given without deleterous effects over periods ranging from three week to other months of the numerous nationals who either the hospital with complete disability free and napor amputations and are included in the other three considered underlieved. The analog believe that wo of the major amputation might have better a sounded by more prolonged pallistive procedures avoided by more prolonged pallistive procedures a sality have been able to return to their former

Typhoid vaccine given intravenously causes: a definite reaction much like that observed following perasterial avmpathectomy with definite ribir of the pans and improvement in the appearance of the leason. The reaction can be repeated, at the other leason. The reaction can be repeated, at large of the uncertainty of the testiment should be combined with proper hygene measures and any minor surgical operations that may be necessary.

The authors believe that the method described hastens the development of an adequate collateral circulation more effectively than any conservative measures heretolore suggested

JOHN H GARLOCK MD

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Desjardins A U Radiotherapy in Actinomy costs
Radiology 1928 21 321

Many cases have been reported which show that the roestigen rays are a potent agent in the treat ment of actionmycotic lesions. The earlier and the more superficial the lesions the more rapidly the roestigen rays cruse them to undergo involution and discopear.

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the chief factor in the cure

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MISCELLANEOUS

Pohle E A and Sawyer R A Physical and Bio logical Problems in Heliotherapy Am J Roentgenol 1928 vs 338

Continuing a series of articles describing their studies on the behavior of the mercury vapor lamp Poble and Sawyer report in this article their experi ments dealing with the problem of dosimetry cause of the importance of establishing a reproducible unit which will follow the biological effect in the emission of ultraviolet from a lamp of this type the experiments included (1) the relation of the biologically important lines in the mercury vapor spectrum during one thousand hours of burner life (2) accurate measurements of the total intensity of the emission of a quartz mercury vapor burner (3) a comparison of corresponding measurements with the photo electrial cell (4) a comparison of a photochemical test to determine its limitations and (5) controls on a sufficient number of patients to establish a skin tolerance dose

The article is summarized braffy by the authors as follows

1 A study has been made of the spectral energy characteristics of the mercury vapor lamp. A vacuum type burner at 110 volts A C was used in all investigations. Measurements of the variation of the relative intensity of the lines 3130 3202 2067 2503 2504 2650 2354 A under varying conditions in a general content of the variation are reported.

2 The ultraviolet emission has also been measured by a cadmium cell in used glass by the starch sodine test and by the skin erythema. It may be concluded from these investigations that the cad mium cell gives a satisfactor reading of the erythema producing ultraviolet part of the mercury vapor spectrum.

3 A method is proposed by which the calibration of a photo electric cell in absolute units can be carried out. This permits checking the sensitivity of an individual cell and calibrating other cadmium cells in the same unit. The correlation between this absolute unit and the biological effect (skin ery themal) has been established. Genaruer Brans

Dison W E and Heald C B Uttraviolet Rays and the General Public Brit M J 19 8 n 642 643 644

Dixor discusses the nature of radiation the curative rays and the sources from which they may be obtained the physiological action of light and the variations in the sensitiveness of the Sain of different persons. As the advertising literature for lamps gives the impression that irradiation by such lamps is a panacea he reviews the dangers of ultraviolet tradiation and emphasizes the necessity ultraviolet tradiation and emphasizes the necessity

for protection of the public against its improper use.

HEAD reports that the value of ultraviolet irradiation when it is properly employed and its dangers
when it is improperly employed led the British
Medical Association to appoint a subcommittee to
consider how best the treatment might be safe
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mendation of this committee was as follows

In view of the risks to the public involved in the use of electricity and radiation as methods of treat ment by untrained and unqualified persons it is to be desired (r) that suitable courses of training should be organized under medical direction for persons who wish to administer this form of treat ment (2) that persons who have satisfactorily fol lowed such a course should be entitled to have their names entered on an approved roll (3) that one of the conditions attached to admission to and main tenance on the approved roll should be abstention from the treatment of any patient except on the responsibility and under the general supervision of a registered medical practitioner and (4) that pa tients who require electrical or radiation treatment should be referred only to those persons whose names are on the approved roll

Heald cites evidence of the harm that can result from the use of electricity in the form of \mathbb{\gamma} rays dustremy etc and in summarizing states that the unqualified electrotherapist should be aboth bed by law GERTRUE FRAND

became distended and tympanic and death occurred suddenly Autopsy revealed two ulcers on the pos tenor surface of the duodenum one of which had ulcerated into the lesser peritoneal cavity

The second article in this group the author of which is not mentioned reports a case of purpura which began with a few peterhix on the limbs and within three months was associated with frequent attacks of bleeding from the mucous membrane of the mouth and intestinal tract. The harmoglobin value was 33 per cent and the red cell count less than 3 000 000 Splenectomy wa followed hy a rapid return of the hamoglobin to normal

RAKE reports the case of a pregnant woman with a hamorrhagic diathesis probably due to an earlier nuerperal infection. On account of the pregnancy no operative treatment was instituted

MORTON PALMER reports a case of hamorrhagic diathesis in a child of twelve years which was char actenzed by rather severe attacks of gastric puin associated with hematemesis submucous hæmor rhages and subcutaneous and intramuscular pain probably due to intramuseular hæmorrhages The condition was believed to be Henoch's purpura

PAUL W SWEET M D

Evans W H The Blood Changes After Splenec tumy in Spienic Anamia Purpura Hamor rhagica and Acholuric Jaundree with Special Reference to Platelets and Congulation J. Path & Bacterial 1928 xxx 815

Of eleven cases in which splenectoms was pee formed the platelets showed a considerable rise in ten One case of purpura hamorrhagica failed to show a marked rise. In one case of splenic anamia (Rosenthal's thrombocythæmic type) the platelets rose to a high level which was maintained until death resulted from mesenteric thrombosis

The clotting time showed a rough parallelism to the platelet level The clot retraction seemed much

more proportional to the platelet count

There seems to be no correlation between the immediate and transient rise of the granular leuco cytes and the slower and more persistent rise of the platelets after splenectomy John J MALONEY M D

LYMPH GLANDS AND LYMPHATIC VESSELS

Bertwistle A P and Gregg A L Elephantiasis Beit J Surg 1928 TV 207

It is important to distinguish elephontiasis from lymphatic ædema in which no hypertrophy but mercly a distention of the cells and spaces is found Elephantiasis is a hyperplasia of the skin and sub cutaneous tissues in a part suffering from lymphatic and probably venous obstruction

The causative bacterium is apparently a strepto coccus which finds lodgment in an area of diminished The focus may be situated elsewhere in the body Histologically the di case is mani fested first by a soft stage characterized by active subcuticular metamorphosis in which the connective

trasues form plasma cells which are seen through out the skin and hypodermis and then by a hard stage characterized by an increase in collaginous material in which the soft swelling gives place to hyperplastic tissue The surface epithelium first shows hyperplasia and later hyperkeratinization

The condition is preceded by lymphatic and venous obstruction. The latter is caused usually by a thrombo is while the former may be con genital traumatic or infective. The infection may be due to filaria tuherculosis syphilis lepros; granuloma inguinale or malignance. The author mentions al o a type due to toxic absorption ol a

chemical nature Flephantiasis may occur in any part of the body being reported on the scalp face tongue breast penis testis vulva and huttocks. The arms legs and scrotum are affected most frequently. The parts involved in tropical elephantiasis vary with the country

The onset dates back to an attack of lymphan gitis This may be sudden and accompany or follow an acute illness If slight residual thickening follows repeated attacks a diagnosi of beginning elephan

tiasis may be made The first stage in the progress of the disea e is characterized by a smooth uniform swelling or thickening of the part. During the second stage the skin becomes definitely thickened and acquire an uneven ridged appearance with hypertrophy of the muscles of the part. In the third stage the skin and subcutaneous tissues are greatly thickened and thrown into folds and deep sulci In the es e of the serotum a diffuse ruggedness is seen Weep-

ing fis ures and indolent ulcers are sometimes formed In the treatment all foer of infection must first be eradicated The patient should be given her rest and efforts should be made to improve his health The use of an autogenous vaccine prepared from fluid withdrawn from the tusues shortly after the intendermal injection of salt solution into the affected area during an attack of fever has been of con siderable benefit Elevation of the affected part must be continued throughout treatment When the lower limbs are involved some type of elasti hose should be worn. In the absence of inflam matron massage is valuable in improving the cir culation When these procedures fail operation is indicated

Many surgeons have obtained succe sful results from the kondoleon operation. The method of Sistrunk which consists in excising a strip of skin subcutaneous tissue and three fingerbreadths of fascia on the external and internal a pect of the leg has also been followed by excellent results. In cases of scrotal enlargement amputation of the scrotum with careful plastic work to assure lymph dramage is indicated. The prognosis as regards life is ordinarily good but in the late stages the patient may be bedridden with deformity or pain

The author reports six cases with a number of WILLIAM J PICKETT M D

photo_raphs

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Desjardins A U Radiotherapy In Actinomycosis
Radiology 1928 n 321

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277

MISCELLANEOUS

CLINICAL ENTITIES-GENERAL PHYSIO LOGICAL CONDITIONS

McPheeters H O Ulcer Cruris The Etiology Pathogenesis and Treatment Surg types & 08 t 1928 vivis 400

McPheeters states that older crurs is the end result of the trophoneurotic disturbance in the leg and foot resulting from the stagnation of blood serum in the tissues secondary to varicose sems The attempt to cure the ulcer first and the years

second is wrong both in theory and practice The varicose veins are obliterated far better by

the injection treatment than by operation

The supportive bandage for the affected extremity with the rubber sponge pressure over the ulceration is the oldest and vet the most efficient treatment of the present day

Judicious employment of the skin graft at the proper time greatly shortens the period of healing To prevent recurrence all long standing cases with extensive involvement must have continued

support for long periods of time The duration and extent of the support must be

decided in each case I maily by the use of the described technique all varicose ulcers can be healed and kept healed If they do not heal it means that the operator has not been keen enough to locate the vein which causes the condition and is often under the ulcer bed or that he has been negligent in giving the extremity the necessary lasting support

Strong L C The Non Genetic Appearance of Various Types of Neoplasta in Experimental Animals J Canser Research 1928 to 205

After many years of brother to sister matings of mice the author has developed a sub strain in which no individual ever developed any type of neoplasia although the mice were kept under conditions ideal for neoplasia and lived far beyond the so-called cancer age. Since in sub branch lines of the same stock there were produced certain individuals which developed certain types of carcinoma it cannot be said that the stock is non susceptible

There was developed also by brother to sister matings another pedigreed stock of which no individual in direct descent ever developed neoplasia

When 2 individuals thus derived were crossed a peculiar type of neoplastic tissue a tumor melanotic in character resulted This was the only melanotic tumor observed by the author in a laboratory and mal in ten years

The mouse with this tumor was bred to his own sister and the ensuing 12 daughters were mated back to the fath e In this back cross generation of 156 offspring no individual developed the same type of tumor

By the same method 2 other tumors were developed one a small round cell sarcoma and the

other an aleukamic lymphoblastoma The author concludes that this type of tumor is

not due to a simple mendelian reces ive unless an extremely large number of mendelian units is assumed. He believes it may be explained as a somatic mutation GEORGE A COLLETT M.D.

GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

Finding G M Histamine and Infection J Pak & Bacteriol 1018 XXVI 613

Findlay's experimental work leads him to suggest that the well known relationship between injury and the localization of organisms in injured tissue is due to the liberation by injured to sue of histamine or a he tamme like substance which causes dilatation of the capillaries and increased permeability of the capil lary endothelium with the result that organisms present in the blood stream are enabled to escape into the surrounding tissues

This theory is supported by experiments with the viruses of fowl pox vaccinia and the Rous sarcoma staphylococcus aureus streptococcus and pneumo-ISCOR M M RA MD coccus

Long P II Ollesky P K and Stewart F B The Role of Streptococci in Experimental Pollomye Hels of the Monkey J & per Med 1918 El 11

Several investigators have reported the isolation of streptococci from poliomyelitic tissues of man and of animals The authors study was undertaken especially to determine the source of the streptococci and their relation to the etiology of the disease It included a compart on of the strains of streptococci isolated from monkeys affected with polion eli is

According to Bull the streptocoets recovered from poliomyelitic tissues have no etiological or pathological relationship to the virus of poliomy elitis of curring only as secondary invaders in the disease Smillie and Amoss suggested that the bacteria may

be agonal ensaders

The results of the authors experiments sugget that the streptococci are contaminants introduced into the cultures during the grinding of the tissues Their source may therefore be the air of the room an which the cultures are made. The authors could not determine any etiological relationship of the streptococci to poliomy elitis and concluded that there is a true virus of poliomy elitis in man and the SANCEL KARN MID monkey

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INTERNATIONAL ABSTRACT OF SURGERY

APRIL 1929

LANDMARKS IN SURGICAL PROGRESS

By IRVING S CUTTER MD ScD Critcago Dean Northwe t rn U v ra ty M d cal S ho t

NATHAN SMITH AND OVARIOTOMS

HERBEPT THOMS M.D. FACS New Haven Consecutour

MERICA S place in the his tory of ovariotomy is one of acknowledged suprem ac) and Ephraim McDowell is one of the immortal names not born to die Associated with the advent of this surgical pro cedure is the name of another American surgeon whose contri bution is remarkable and who should share in no small measure the honor due to pioneers in surgical achievement Smith's life was so resplendent with achievement in other fields that his part in the develop ment and establishment of ovar iotomy has been somewhat over looked

Nathan Smith the omni present genius in New England medicine performed ovario tom) in 1821 with no knowledge that McDowell

had preceded him Indeed as allow was mederal newsyn that day that they ear halve his son word. I am not confident that the first operation by Doctor McDovell was subsequent to that of my latter. This operation by Nathan Smith in 1821 is the more transflable when we realize that the anticipated modern surgical technique by dropping the tumor predice into the abdominal cavity in



(1762 1529)

stead of suturing it to the ab

Nathan Smith was in no sense a backwoods surgeon Like Mc Dowell his training was unusual for that day It included a Har vard and an Edinburch back ground and he was familiar with and performed many times the acknowledged surgical proce dures of his day As a lithoto mist he lost but two patients in thirty two operations He was an unusually successful cataract operator and made far reaching contributions to our knowledge of fractures particularly those of the thigh He is said to have been the first to perform staphy lorrhaphy for cleft palate His great contributions to medicine

and medical education do not need emphasis here

The operation for the removal of an oxarian cyst in 1821 was performed when Nathan Smith was 59 years of age while he was Professor of Physic and Surgery at Vale College. It was performed at Norwich Vermont upon a Vits Strobridge The distance of this town from New Haven well illustrates the perpatetic nature of the sucressful surgical practice of that day. With

EDITOR'S COMMENT

A STATISTICAL study of all the fractures treated at the Pazzol Institute in Bologna during the years from 1890 to 1936 and a more detailed study of the fractures involving joints 43 per cent of the total number forms an interesting and instructive contribution to the subject of fracture pathology and treatment

Of the 16s Inctures involving the upper end of the humerus reported by Zanoli (p 260) op per cent fell into one of three groups—uncomplicated fractures of the surgical neck (66 6 per cent) fractures of the surgical neck (66 6 per cent) and fractures of the bread of the bumerus (80 ep per cent) and fractures of the surgical neck, with displacement of the head of 2 per cent). Fractures of the head of the bumerus of the anatomical neck uncomplicated fractures of the greater tuberosity and epiphyseal separations alogether formed but to per cent of the entire number Of interest too is per cent of the entire number Of interest too is and in only 2 of the compound one and in only 2 of the contractures were there associated increases.

Of the 38 fractures about the elbow reported by Camurat (p. 36) 112 (J4 f4 per cent) were supracondyloid fractures 50 (15 per cent) in volved the external condyle 37 (11 per cent) in volved the internal condyle and 22 (6 per cent) in volved the internal condyle and 22 (6 per cent) were Tor's happed fractures (supra and intercondyloid). In 30 cases (6 per cent) there were complexiting primary, nerve lessons 31 nd ocases (12 per cent) complicating dislocations and in 67 (204 per cent) everysists below formation at the contraction of the center of the contraction of the contracti

site of fracture. Two hundred and forty two fractures of the neck of the femor reported by Dusi (p. 263) constituted 19 per cent of all the fractures of the lower himb and 64 4 per cent of all fractures of the femor on unusually high percentage. Fifteen cervical and 5, everycotrochantene fractures occurred in individuals under forty years of age. The results after non operative treatment were excellent or good in 50 out of 96 cases and after various forms of operative treatment in 72 or

40 cases
One hundred and mnety fractures of the mal
leol are also reported in detail by Faldini (p. 365)
44 fractures involving the knee by Zanoh (p. 364)
and 186 fractures involving the wrist by Soldi
(p. 361)

Haberer s discussion of some phases of the surgery of the bilary tract (p. 337) emphases
particularly the occasional presence of alternat
ducts passing directly from the liver into the vali
of the gall biladder. Such ducts he believes were
present in one case in which after careful remoul
of an initiate gall biladder containing pay pays as
seen orang in drops from the persioneal covering
of the liver. Haberer does not think it possible
that in this case the pus could have come from
such delente structures as the 1 pnphase versels.
He believes that the presence of such ducts accounts for the occasional leakage of large annual
of bile following cholecystectomy and careful
heatton of the evite duct.

ligation of the cystic duct.

Francis comprehensive review of leading tuliarense infection based upon 502 cases and his description of four chinical types of the diese (p. 36-6) indicate both its extensive distribution and the windespread interest that his studies of tuliarzmus have aroused in the medical profession. Its is unusual that the etiology hactern-lovy and symptomatology of a disease should be so care itself studies do completely understood and that this knowledge should be disseminated among the entire medical profession in so brief a period of time as has been the case with tuliarzmu and the credit for this signal achievement belongs to Francis of the United States Public Heilib Service

A number of other abstracts in this month's issue of the International Abstract of Scr GERY deserve particular mention Baroni s studies on the experimental production of actinomy costs (p 380) Coley's report of the end results of the treatment of Hodgkin's disease and lymphosar coma particularly with roentgen and toxin therapy (p 371) Forssell's review of the thera peutic methods in use and the results secured at Radiumhemmet in Stockholm (p. 375) Giacobbe a discussion of the therapeutic results of artificial pneumarthrosis in intra articular lesions of the knee (p 358) Foster s clear cut discussion of intestinal obstruction (p 330) and Short's review of the symptoms resulting from inflammation of the mesentene lymph glands (p 326) are a few of many helpful and stimulating papers which have recently appeared in American British and Continental journals

domen but it adhered to no part except the proper ligament which was not larger than the finger of a man I have seen two other ovarian sacks which were taken from patients after death. They had been tapped several times the sacks were equally unattached except to their proper ligaments Hence I inferred that in a case of ovarian drops, while the tumour remained moveable it might be removed with a prospect of success. The mode of operating practised in the above case is the same that I have des ribed to my pupils in several of my last courses on surgery. The event has justified my previous opinions

I am unaware that present day portrayals of surgical procedures are more perfect than this description by Nathan Smith of his operation for ovarian tumor. When we consider the actual technique of the operative procedure and the fact that he was ignorant of precedence Nathan Smith's contribution to ovariotomy becomes not

inconsiderable. In conclusion, we should remem ber that his life was far greater than that of the successful surgeon or even the pioneer in gynecol ogy Nathan Smith has been finely eulogized by Dr William H Welch in a Yale address as

' Famous in his day and generation he is still more famous today for he was far ahead of his times and his reputation unlike that of so many medical worthies of the past has steadily increased as the medical profession has slowly caught up with him We now see that he did more for the general advancement of medical and surgical practice than any of his predecessors or contemporaries in this country. He was a man of high intellectual and moral qualities of great originality and untiring energy an accurate and Leen observer unfettered by traditions and theories, fearless and above all blessed with an uncommon fund of plain common sense

ATXIV Cuf Or nun D pry sec enf ily removed by a S ter al Oper ton Comm a t d by D Naza Sa TH Int at I Thy dS c ratY 1 Cli. Tr batfilm prom ws Mrs. Smindge IA

w h V rm aged \$2 ye rs. Th (II mg tifth case p woort this page w taken from the trent wS en years he fen, he pre da mall tumour in her right of airs dim th night he reg hen botth use god go b blom tw bbrb di th ppost deofth in all, dto m d'a e b th control ou The peath of born for history by proper and thee becent the design num or Thy ge hald was to m nife ld de p m dat if be sat al n h submit of the piret. Son h by Antipregramy Seem the commen ment of th turneur and then, a & dunks, it was to t4 In h ind m ter t dd nigd ppc red probably be tot the belon a. I d so b to a beg defore Before adale the burning fit ten h a deires of fe to a which has ad from tw house to half of D go much to få sec delif after it men norm t effth tum th mg q red nad rabl I burst your still such ywaspre d fittil agitm ih hat to d I fo dy from is responses e to a s farge to it h d sear ben It was gum burst by a fall gre t sore est Ith 3d men & & m t fib p nestfe er zulwe b # in tumou filled gast at formight, iff m h d 2 to m reat ; Gd th retmit di ry fa 1 t bit mb b.m. tente the pre to to to prate. The pt t habber notm h ff sed by th tomos Sh was c & and th at f

proudly out g Da amin to 3 to d large t m up th right of fish below to come here. Me, set Farstmile excerpt from Nathan Smith a original article The American Medical Re order Volume 1 1822

I to produ din til tu conthro eli si-

th tum rencomm dan em en et y dor fa family

the exception of Rhode Island Nathan Smith's endeavors may be said to have encompassed all New England

It is the chief purpose of this communication to set down again the classical description which was given to the operation for ovariotomy by Nathan Smith

The subject of the operation a Mrs Strobnige of Norwich Vermont was aged 33 years Her

previous history is summarized

Seven years before the operation she had noticed a small tumor in her right side situated in the right iliac region. She had borne five children altogether-two previous and three subsequent to her discovery of this turior. Her youngest child was ten months of age and was nursing at the breast at the time she submitted to the operation. Three times during this seven year period before operation the tumor is said to have burst inside and decreased in size. The last time this was the result of a fall. It however is said to have refilled very rapidly and from that time until the operation had continued to increase in size It was unaffected by the delivery of her last child which was ten months previous to the

operation Her general condition was not greatly affected by the turnor but the size of the turnor is said to have incommoded her in the ordinary duties of her family especially in bending The description follows in Nathan Smith sown nords

Having decided on the operation and determined the mode of operating on the 5th of July in the presence and with the assistance of Doctors Lewis Mussey Dana and Hatch I commenced the opera

tion as follows The patient being placed on a bed with her he d and shoulders omenhat raised an assistant roled up the tumour to the middle of the abdome and held it there I commenced an incision about an inch below the umbilious directly in the lines alba and ext a led it donnwards three inches I carnel it down to the peritoneum and then stopped till the blood ceased to flow which it soon did I then di saded the perstoneum the whole extent of the exter nal mersion. The tumour now exposed to view was punctured a canula introduced and seven ; nis of a dark coloured ropy fluid was discharged into s vessel About one pint was spilt so that the whole fluid was about eight pounds. Previous to tapping the tumour by inserting my finger by the side of it I ascertained that it adhered to some extent to the parietes of the abdomen on the right side between the spine of the ileum and take ribs After e a sat ing the fluid I drew out the sack which brought out with it and adhering to it a conside abl portion of the omentum. This was separated from the act with the knife and two arteries which we feared m ght bleed were tied with leather ligatures and the omentum was returned By continuing to pull out the sack the ovarian ligament was brought out this was cut off two small arteries secured with leather ligatures and the ligament was then re turned I then endeavoured to separate the sack from its adhesions to the panetes of the abdomen which occupied a space about two inches square the was effected by a slight strole of the knife at the anterior part of the adhesion and by use of the fingers. The sack then came out whole excepting where the paneture was made and I should think it might weigh beti een 2 and 4 pances. The incision was then closed with adhesive plaster a da bandage was applied over the abdomen favourable symptoms occurred after the operation an three neeks the patient was able to sit up and mall, and has since perfectly recovered

I was anduced to undertake this operation from the following con iderations The patient though her health was not greatly impaired was sensibly effected by the disease. She was quite certai that the mercase of the tumour in a given time was augmented probably at no very distant period it would have destroyed her I had allo had an opportunity to dissect the body of a patient who had died of ovarian dropsy who had been tayped seven times. In this case the sack was found to be in the right ovarium which filled the whole ab-

Craniopiasty by the Split Rib Method J College Surg Australasid 1928 1 238

The graft used in Brown s method of cramioplasty is the outer half of a rib which is split in situ. Brown regards the tibial graft as unsatisfactory because it does not conform to the shape of the cramal vault and because its removal often disables the patient for months In reporting twenty one cases in which a tibial graft was applied to the skull Morrison stated that all of the patients complained more of the pain in the leg than of the pain in the head

None of the patients subjected to Brown s opera tion complained of the thoracic injury and in all who have been examined subsequently the regen erated rib was found to be the replica of its fel low on the opposite side. Most of the repairs have become somewhat flattened in the course of time but Brown believes that a more consistent restora tion of outline will be obtained as the result of TACOB VI MORA M D experience

Lederer F L Prosthetie Alds in Reconstructive Surgery About the Head Presentation of a New Method 1rch Otoloryngol 1928 viu 531

In cases in which it is impossible to obtain good results from reconstructive surgery about the head the author employ a prostheses He gives the formula for the manufacture of the material used and describes the procedures by which the prostheses are made and applied J FRANK BOLGERY M D

EYE

Rodin F H Perforating Eye Injuries of Young Children California & Il eti Med 1928 xxx 338

Rodin reports three cases of perforating injuries of the eyeball in children. In the first enucleation was done nineteen months after the injury because of bundness and pain. In the second, the pupil he came completely obliterated by adhesion of the ins to the corneal scar In the third a traumatic cataract developed

As a rule such injuries cause prolapse of the iris Injury to the lens capsule is common and there is

great danger of infection

In the treatment proper cleansing of the eveball and eyelids is of great importance. Atropin should be installed the prolapsed ins replaced or removed and the wound excised A bandage should then be applied and the patient confined to bed

LYMAN 1 Corrs M D

Heefs II II The Technique of the Motais Operation for I tosis 4m J Othih 1928 x1

Following a review of the literature on the Motais operation for ptosis Weeks describes a suture for the superior rectus tendon slip which he has found to be secure. The tendon slip is carried through a subconjunctival tunnel onto the anterior surface of the tarsus and supported by a fold of the levator tendon THE WAS DE MARKET MED

The Correction of the Defect Due Wiener M to Third Nerve Paralysis 1rch Obhth 1028 ivn 597

For correction of the deformity caused by paralysis of the third nerve surgical treatment has not been very satisfactory Jackson and Dransart quite in dependently suggested transference of the tendon of the superior oblique muscle to take the place of the paralyzed internus. Dransart has transferred the tendon of the superior oblique muscle to the external rectus

Wiener reports two cases of third nerve paralysis which he operated upon with good results by sutur ing the superior oblique muscle under the insertion of the internal rectus and re attaching the superior rectus VIRGIT WESCOTT M D

Smith K. R. Concomitant Strablemus and Heter ophoria Brit J Ophth 1928 XII 581

Smith states that the cause of convergent against is the arrest of development of binocular vision in hypermetropia Many hypermetropic children make good progress in acquiring binocular vision at games out of doors and in ordinary use of the eyes but when they are required to use their eyes for prolonged near vision their eight is not sufficiently clear or the effort is too great for one eye and one eved sight results. The unused eye becomes less and less sensitive and the binocular vision acquired out of doors is lost one-eyed vision is established and deviation of the unused eye follows. Unless atten tion is paid to the poor eye in the fitting of glasses its sensitivity will not be restored

In beterophona the same sequence of events occurs but the patient is able to retain the binocular vision he has acquired

The treatment indicated is training of simulta neous vision. The author says. Bring about sight of the same object with both eves

THOMAS D ALLEY M D

Duggan J N A Case of Rhinosporidium Kinealyl Brit J Ophth 1928 x11 526

Rhinospondium kinealyi affects stratified epithe hum forming cysts haed by flat epithelium ranging from 3 to 4 micra in diameter and containing from eight to fifteen spores. The cysts burst discharging spores and are then invaded by leucocytes

In the case reported a small red papule in the region of the semilunar fold of the right eye had grown in a period of six months to a papilloma like neoplasm covered by a thickened scab which prevented closure of the lids The tumor had a broad base extending to within 4 or 5 mm of the limbus but not involving the sclera. It was dark red fairly vascular and not painful unless touched Vision the eyeball and the lymphatic glands in the vicinity were normal Before a microscopic examination was made the growth was believed to be a papilloma. It was removed and patient sent home six days later LISLIF L McCoy M D

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

McCreen J A and Berry F B A Study of 520 Cases of Fractures of the Skull inn Surg 1928 laxxviii 890

The injuries reviewed by the author occurred in adults. The causes see a full in 17g cases an unknown cause in 14g cases an automobile accident in 110 cases a blow in 61 cases a street ear accident in 14 cases a crushing injury in 5 cases a horse and wagon accident in 4 cases a train accident in 3 cases and a bullet injury in 4 cases.

The chinical classification of the fractures wa as follows base 347 vault 90 vault and base 57 undetermined 22 compound 37 and depressed 27 in 4 cases no fracture was demonstrable

Scalp wounds and hamatomata were of considerable and in indicating the sites of the skull and brain injury as well as the location of contrecoupinguries. In surprisingly few instances however did the wounds feed directly to the fracture.

Bleeding from the eat through a ruptured drum is of significance. In cases of head injury with bleeding from the drum or a locetation deep within the external meatus, the treatment should be that given for fracture of the skull and the possibility of the development of meningities should be borne in mind.

The fixed pupil was a serious sign. When the pupils were unequal the larger pupil undeated the side of the lesson with considerable exactitude. The condition of the pupils often changed rapidly and was a sign of considerable value in determining the nation's progress.

The cranisl nerves most often involved were the seventh and eighth. The third and south were affected next most frequently and the first was in volved least freq ently.

Generalized paralysis or convulsions were an indication of severe concussion associated with gone or less brain liceration. In cases with these sequelzthe coma was usually deep the pupils were fixed the blood pressure was low and death occurred after a few hours.

Localized weakness or spasticity—always sought or as an indication for operative intervention and accompaned by changes in reflexes—ass of great and in the determination of the site of the injury. It was often unpossible to tell whether the condution as the typical syndrome of epidural harmorphage was conspicuous by as abserve.

Practically all patients with a fracture of the skull complain of headache and at some time il not in

coma present the stritability characteristic of me nungeal stritation Comiting is of little importance

The \ray findings when positive are of great
value but the authors disregard a negative report

The authors believe that the danger of spinal top has been exaggrated and that the advantages to be gained from the procedure in both diagnosis and treatment outneigh the risks

While the presence of blood in the spital flud means only subarachnoid hamorrhage from brain faceration or pail hamorrhage it is rarely found in traumatic cases without a fracture and as it is in itself an indication of brain mury should be on sidered an indication for treatment of such an

injury. The treatment of the cases reviewed included (i) the treatment of shock (i) physical examination with especial reference to the eves and neurological sagms (i) cleaning and exploration of scale would exploration of the final (i) exhibition copies extinuisations of the final (i) treatment for increased integrant pressure (in the case of the case

In the majority of cases the pressure was reduced to normal by one early spinal tap. When this rai snadequate magnesium sulphate by mouth or return usa used in the milder cases but in the more sever cases repeated spinal taps were found most effective

was used in the milder cases but in the more seems cases repeated spinal taps were found most effective. When sedatives were required parallelpide todium bromide chlotal hydrate and luminal were the

On descharge the patient was unstructed to

for long periods each day

In the early stages while the patient is sill in

shock operation is probably unwise even when there are localizing signs

In the cases of patients who ded within tently four hours the picture was that of severe concessousually with no signs of local pressure. The patient was the concessous and the populs were fixed and eccasionally unequal regular that were unconstructed and eccasionally unequal regular that the patient of the control of the patient was itsually deep and sterious gradually be came more feeble and rapid. Autopsy us these surely show the control of the cont

The blood pressure and pulse rate were of little value in the determination of intracranal pressure

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tends to recur and to form metastases. In a case in which enucleation was done eleven years after excision of the tumor death resulted from general

metastasis six years later

Young reports the case of a man thirty years of a who was hit in the eye nine years previously but had no sequelse from the injury until one year later when a small growth a min in diameter appeared in the antenor chamber. Two years later vision was 6/9 and the mass which had grown slightly was hown and showed many blood vessels on its surface Enucleation was then advised.

When the patient was examined by the author shortly before the enucleation and nine vears after the accident the brown mass almost completely filled the anterior chamber but there was no in flammation the cornea was clear and the iris

reacted to light and convergence

The pathologist reported the tumor to be a spin dle shaped melanotic sarcoma arising from the unand lying on the posterior surface of the cornea but not involving the ciliary body.

Thomas D ALEE MD

Juler F Bilateral Obstruction of the Central Retinal Arteries Brit V J 1028 n 701

The cate reported by Juler was that of a man fifty veats of age who was suffering from cardiorenal disease and hypertension. Obstruction of the central artery of the left eye was followed one month later by imiliar obstruction in the right eve. The condition was believed to be a thrombosis or endartentia rather than embolism.

Thrombosis is suggested by the fact that during tound sleep the blood pressure is lowered and the cordition under discussion is first noticed when the patient awakens but MacWilliam has shown that during disturbed sleep the blood pressure is fre

quently increased even more than by exercise In recent caset of such obstruction of the central tetual arteries treatment with ami) nitrue and massage has sometimes seemed to cause improve ment Sanger A Durk TO

Chou C. II Angiopathia Retinæ Traumatica (Purtscher) With Some Remarks on Pigment Vilgration Brit J Ophth 1928 xi 570

A sisteen year old how was hit on the right orbit by a ball. After the injury a lymphorrhagic area developed in the retina along the course of the unjernor temporal vessels arching over the macula and extending from the disk, margin for 5 or 6 pd. About the days later a fine pigmentation appeared throughout the involved part of the retina and on the one disk.

When the patient was first seen by the author about a week after the accudent their was a minute beamonthage just above the macula. The quickly became absorbed leaving no trace. Subjectively there were central relative and paracentral absolute totomata corresponding in size to the lesions observed.

Silva R Surgical Technique for the Removal of Subretinal Cysticercus 4m J Ophih 1928 x1 867

The author reports three cases of subretunal cystucreus. In the first the cystucreus occupied the macular region and extended to the optic nerve for its surgical removal the external rectus was temporanly detached at its insertion the cystungly rotated nasally, and the selera cautiously incised over the cyst until hermory the cystucreus of the cystucreus was the removed extinct repture of the sac in spite of the presence of considerable fibrous tissue. Healing was surventiful.

In the second case the cysticercus had migrated from one position to another beneath the retina. It was removed by dissection of the sclera over its second position. Normal central vision was retained.

In the third case the cysticercus was free in the ratreous Operation was refused. Five months later enucleation of the eve was necessitated by intense indee, thirs. No evidence of suppuration was found. The pathological diagnosis was dead cysticercus in the viteous.

NOSE AND SINUSES

Ifarter J If Chronic Suppuration of the Maxillary Sinus Including Oral Fistulæ Operative Cura irch Otoloryngol 1928 viii 523

For the treatment of chronic suppuration of the manilars sinus the author prefers the Denker opera tion performed under local amesthesia as iteradicates disease in the anterior naso antral angle causes minimal hymorrhage and shock and requires less postoperative care than other procedures

The usual objections to this operation are based on the desensitization of the teeth the alleged sud den release of the accumulated secretion the difficulty of the technique and the weakening of the bony framework of the face. According to flarter these criticisms are fallacious

The desenstitation is temporary and does not affect the vitality of the teeth. The riclease of accumulated discharge when the patient lowers had is unusual when the operation is properly per formed. The difficulties of the technique are lessened by local anaesthesia. The weakening of the bony framework of the face is not serious. Harter regards the intranaesi operation with dis

favor He states that the Caldwell Luc operation has a tendency to be followed by narrowing or closure of the naso antral will and the formation of irregular suppurative tracts within the newly formed hone W M PATON WD

McGregor G W The Formation and Histological Structure of Cysts of the Maxiliary Sinus Irch Otologyngol 1928 viii 505

Secreting dental and mesothelial cysts of the maxillary sinus are of infectious origin. The primary Berghausen O Tuberculin Therapy in Ocular Tuberculosis trek Ophik 1923 lvn 1881

The author states that infection of the eye by the tubercle bacillus is usually metastate. The ocular process may show three stages (1) a small nodule usually in the iris (2) a violent usetts and (3) a chronic topid indocyclins with the formation of transparent nodules. The second stage is often absent or ol very short duration.

The condition must be differentiated especially from syphili by physical examination and sero logical tests including tests with tuberculin Of the latter the intradremal and subcutan ous t sta

are recommended

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Berghausen reports several cases in the majority of which marked improvement followed the administration of tuberculin Samuel A Dune M D

Gifford S. R. Some Modern Preparations Used in the Treatment of Glaucoma Arch Ophik 1948 lvii 612

Gifford reviews the experimental and clinical work done in the treatment of glaucoma during the last few years. He discusses the effects of adversalm and its derivatives derivatives of ergot hypertonic solutions calcium and barrium salts and pitturin. He was a second of the effect of the effect of the time of these derivatives of reintle judgment as 15 their value but all of them have interesting possihilities.

Wolff, E. A Large Implantation Cyst of the Conjunctiva From Roy Son Med Lond 1928 XXII 22

Wolff reports the case of a msn of sixty years who give a history of having been bit in the night eye five years before. Two years later a swelling began at the site of the wound and steadily locreased in size

On estimation there was found a cystic transincent swelling which prortuded from betacen the evelude and prevented their closure. The whitch scar of the original jumps could be seen in the conjuactiva near the cornea. The cyst was taken out whole. It lay between the conjunctiva and the sclern and was loosely adherent to both everpt at one point. It contained clear sweet miscould find On microscopic examination the wall assesse to be limed by several layers of equipments. The property of the limed by several layers of equipments.

Chou C II A Typical Form of Familial Degener ation of Cornea (Fielscher) 4rch Ophik 1928 lvn 574

The case reported by Chou was that of a woman twenty seen; parts old who complained of eyestran In each comes there were many gray flake his expectives with clear centers. On shi kampe cannot into these were found to be inreedled in each term of the formed or one of the comes of the comes of the comes of the comes of the cortes of the cortes onesity or the stored under than usual. All of the opacities were beneath the surface of the cortes omestive mite strong under Bowaman s.

membrane The endothelium was normal penph erally hitt showed early signs of degeneration in the central part of the cornea The corneat sensifiity was somewhat reduced but the general physical examination was entirely negative

Saute 1 Deep MD

Derby G S The Nature of So Called hoppe
Nodules treh Ophih 1928 by 161

In a case reported by the author that of a man forty three years of age varion was 30 con the right even and only in the left eye. In the right even and only in the left eye In the right even and only in the left eye In the right even and only an extension of the correct bot as called a continuous to the left eye and the was somethat the scale of the correct bot as called a continuous to the left eye and the left eye from the left eye from the lesser care. There was sight atrophy of the rise at the margo. The left eye showed streous opacities and a spot of chorodial atroph.

The history and the findings of physical examination ruled out syphilis and led to a diagnosis of fulberculosis.

A combined extraction was done on the right even with very good results Verhoell who examined the excit ed piece of this histologically reported that it was free from lymphatic modules and tubereles and that the stroma was infiltrated with plasma cells.

which also composed the nodules

Similar nodules may be found to sympathetic
disease leprosy and impical syphilis but are
not seen in the intus due to fees limfection or ordinary
syphilis. They are very strongly sugge tive of
tuberculosis.

SANCE A DEER M.D.

Chance B A Case of Surcoma of the Iris in J

The many properties has that of a man furty two years of easy which shad an answ the furtil first heart of the properties of the many was sellow home and dour shaped. It occupied the aught of the autron chamber and was attached to the area of tend acre by a narrow hase. It was somewhat nodulist had transparent or translutered. O're to suffice there were the complainted and vastellar price. Inside any of the complainted and vastellar price. Inside and the tession were normal. Vision was \$16. The was set removed.

On examination it was pronounced a mixed-cell sarcoma with melanotic pigment. Eighten disafter its excision the globe was enucleated. Vofurther involvement of the eve was found and asgeneral metastases have been dis-overed in the subsequent six years. Thousas D Actics M D

Young, G A Primary Melanosarcoma of the Iris

Immary melanosarcoma of the ins is a relatively rare condition. It occurs as a rule after middle are and is characterized by slow growth and late in disminators symptoms. It is relatively ber go but Looper E. A. and Schnelder L. V. Laryngeal Tuberculosis. A Study of 500 Patients Treated at the Maryland State Sanatorium from 1923 to 1928. J. 4m. M. 4st. 1928. xc. 1012

as laryngeal involvement is the most serious complactation of pulmonary tuberculosis frequent throat eximinations should be made in cases of tuberculosis of the lungs as the earlier the diagnosis is established the more promising the prognosis. Of 3 227 ps tents with pulmonary tuberculosis who were treated by the suthors 15 5 per cent showed laryngeal complications. These occurred more frequently in men than in women and were most common between the

ages of twenty and forty years. The use of the work seems to play no part in the development of tuberculous lary nguts. Pathologically the condition is secondary to the pulmonary infection and affects in decreasing order of frequency the work combass of entire time and is the cords and aptentiods and the posterior wall and interarvement addition. The most common is mylomost are a change in the voice parasithesias pain reflect otalight and dishipment of the posterior wall and interart the properties of the prope

catarrhal laringitis luctic infection and carcinoma

The prophylaxs includes periodical laryngoscopic estimations of tuberollous patients and all possible conservative measures for the correction of pathological conditions in the upper respirators treat the content of the content of

with healing in 655 per cent of the authors cases with moderate lung involvement and in 265 per cent of those in which the lung condition was far ad vanced. Even in hopeless cases it is of great value as treheese pain and coughing. The cauterization is done under local anasthesia by the indirect method at monthly interval. Contra undications are a high fever marked asthema and a high blood pressure.

Grosce R. McNutry M.D.

Thomson Sir St C Intrinsic Cancer of the Larynx
Operated on by Laryngofissure Immediate
and Ultimate Results 1rch Otolaryngol 1928

The author defines laryngofissure as practiced by himself in cases of intrinsic cancer of the larynx as a partial laryngoctomy in which the anterior commissure in front part of the arytenoid behind the ventricular band above and the subglottic area below are excised with the pericbondrium lining the thyroid cartilage.

lle reviews seventy, cases in which this operation was performed. The patients ranged in age from thirty to more than cightry years. Susty three were males. Three died within four days after the operation seen died from miliginant disease in another and eighteen died from the cause that forty eight were still alive and apparently well at the end of three years.

The author concludes that if intrinsic carcinoma of the larvnx is diagnosed early the best treatment is larvngofissure

MANZOR R WALTZ M D

cause of secreting cyst is daminge to the cilia of the gland tubules by infection. Gedema infiltration and fibrosis are contributory factors. The lining epithelium of secreting cysts undergoes various pathological changes. These cysts commonly occur in the maxillary sinus and are frequently seen in frontenorogical.

Dental cysts arise from epithelial rests which are stimulated into activity by infection. Large phago cytic cells or clasmatocytes have been demonstrated by the author in their contents. These cells are derived from the monocytes and suggest a tuber culous factor in the production of the cysts.

Mesothelial cysts are due to the accumulation of tissue fluids in the tissue spaces. They are found in an externations mucous membrane and are filled with tissue fluid. Secreting cysts contain mucous

Cysts should be viewed with suspicion as they occur only in the presence of a pathological process and may act as a focus of infection

The article contains a number of photomicro

graphs W M PATON M D

NECK

Carson A and Dock W The Effect of Iodine upon Experimental Hyperthyroidism in Man 4m J M Sc 1028 Clery 701

In the authors studies of the effects of rodine in experimental hyperthyroidism an man the equivalent of the hyperthyroidistism was made in four persons (two of them the authors) by the maeston that the machine of the pube rate the basal metabolic rate and the symptoms are made on the pube rate the basal metabolic rate and the symptoms.

Use of the control of

The authors conclude that these experiments present further evidence against the conception that hyperthyrodism is due to a qualitatively perveited secretion of the thyroid gland and that the myone tence of iodine in these cases in which the thyroid was not diseased points to the gland itself as the site of action of iodine in hyperthyroidism. The article is summarized as follows:

A state of artificial hyperthyroidism was produced in four adult males by the ingestion of thyroid extract

z Iodine had no effect upon this pathological condition

3 The results suggest that the therapeutic effect of todane in hyperthy rodam is produced by the action of the todane on the thyroid epithelium.

J EDWIN KREFFEREN VID

McCullagh E P The Parathyrold Glands Their Reference to Hyperthyroldism 4rck Int M 2 1027 Mt 546

McGallagh reviews the literature embpoling. gross microscope and comparative autions were patton experiments (hypertrophy of one set of parathyroid glands after removal of autibre ste hypertrophy of the parathyroid gland after throid cromy. hypertrophy of the thyroid after pan thyroidectiony by the effects of feeding thyroid extends on the function of the parathyroid glands she effects of the administration of parethyroid critical on the function of the thyroid gland distributed on the function of the thyroid gland distributed and the standard of the authority glands in hyper roid extract and of the authority glands in hyper thyroids the terms and control glands and a method of measuring it.

Six theories as to the cause of tetany are discussed and four series of experiments which were carried out to determine the blood calcium changes in hypothyroidism and hyperthyroidism are reported

potted the first group of experiments of determine tons of the serum calcium, were made in 31 casted hyperthy readour in which bilateral fuging of the superior theory of determinations of the serum calcium determinations were made in 139 cases in which the basal metabolic rate was defined on the serum of the serum o

In the case in which ligation of the superior through arters was done there was no defined crease in the serum calcium. After lobectom, the serum calcium snowed a decrease and after thy roudectomy a much more marked decreases and per cent of the 130 cases of hypothyroids and the 130 cases of hypothyroids and the serum calcium of the 130 cases of hypothyroids and the 130 cases of the 130 cases of hypothyroids and the 130 cases of hypothyroids and hypothyroids and the 130 cases of hypothyroids and hypothyroids are hypothyroids and hypothyroids an

In the results of these experiments there was nothing to indicate an abnormal functioning of the parathyroid glands in either hypothyroids in the hypothyroids of the hypothyroids in except when there had been actual trauma or removal of these gland. The author has found no indication for the use of parathyroid hor more in hyperthyroids in CARE K STRINE HD.

paralysis of the left side of the body. The nationt quickly became semi comatose. His recovers was fairly rapid and after five weeks the only abnormal signs were slight residual motor and sensory impair ment on the left side and a persisting field defect which had been a left lower quadrant hemianonsia Five months later it was observed that these im payments had persisted and there was lateral nystagmus of both eyes The diagnosis at that time was disseminated sclerosis. The third attack came on when the national arose from bed after being ill with influenza for ten days. The signs were exactly the same as in the previous attacks but there was no loss of consciousness. Recovery was again rapid with the same residual impairments

The fourth and final attack came on after a day s The nationt became deenly unconscious Complete paresis developed on the left side and there was a divergent strabismu. but no sign of meningeal irritation was noted The pupils did not react to light The right pupil was widely dilated and the leit of pin point size Lumbar puncture showed in creased pressure. The fluid was almost pure blood

Death occurred after about twenty hours

At autonsy no signs of arteriosclerosis or cardio vascular disease were found. The hardened brain showed an aneurism of the right posterior cerebral arters measuring about 34 by 35 in The course taken by the blood from the ruptured aneurism was followed through the right optic thalamus and the nght lateral veatricle into the anterior horn of the left lateral ventricle

The four groups of symptoms caused by leakage or rupture of a cerebral aneurism are (1) those in elderly persons with arteriosclerosis (2) those simu lating meningitis with loss of consciousness (3) those with no loss of consciousness but with typical signs of meningitis (4) those with signs of intracerebral hemorrhage without meningeal signs

The author's case belongs in the last group. In a

voung subject with a negative Wassermann reaction and no arterial disease or infective endocarditis the probable cause of recurrent hemiplegias on the same side is the leakage of a congenital cerebral aneurism

ALBERT S CRAWFORD M D

SYMPATHETIC NERVES

Leriche R and Fontaine R An Experimental and Clinical Contribution to the Question of the Innervation of the Vessels Su g Gynec & 06 / 1029 xlvn 63r

The authors investigated the effects of pain pro ducing substances local ancesthesia heat cold untating solutions and time in cases in which the innervation of arteries had been disturbed by pen artenal sympathectomy peripheral nerve section excision of the sympathetic trunk or its ganglia or partial or complete section of the spinal cord In ad lition they studied the changes in the blood pres sure and the hyperamia in affected areas. On the ba is of the results of these investigations they sug

gest that vascular reflexes may be divided into the following groups (1) peripheral vascular reflexes having their centers in intramural pleruses (2) vascular changes through axone reflexes (3) intra sympathetic reflexes which have their centers in the ganglia of the sympathetic trunk (4) medullary vascular reflexes and (s) cerebral vascular reflexes

Upon this hapothesis they explain the phenomena following sympathectomy as follows

After a penarterial sympathectomy the contraction of the arterial segment operated upon is the result of direct trauma to the intramural peripheral centers The contraction lasts only a few hours and the vaso dilation which follows it is produced by long reflexes For this reason it may be bilateral and even produce modifications in the maximum and minimum pres sure and the oscillatory index in all four extremities

Periarterial sympathectomy changes the circula tion in the extremity operated upon and produces an increase in the local heat. The local changes are less marked than those following sympathectomy because persarterial sympathectomy interrunts fewer pressor fibers. The hyper emia is less marked and less persistent than after the operation on the

sympathetic trunk

After operations on the sympathetic trunk the vascular changes are the same as those occurring after penartenal sympathectomy but as the arterial wall is not directly injured the initial contraction does not occur

The authors draw the following conclusions

The motor innervation of the vessels is due to peripheral perve plexuses in the arterial wall itself 2 The extrinsic nerves of the vessels play the rôle of association fibers with a pressor or depressor effect

3 The simplest vascular reflex has the peripheral plexuses as a center. The reaction to heat and cold is a reflex of this kind

More complicated and lonser reflexes exist

Every vasomotor reaction should be considered from the standpoint of its influence upon the general circulation and upon the local circulation of the hmh subjected to operation

The authors state that their theories of vasomotor scrivity are not contradicted by anatomical facts They contend that even though vessels may be seg mentally innervated periarterial sympathectomy may through long reflexes produce general changes in the circulation and lower arteriole capillary pres sure by the suppression of pressor fibers thus pro ducing an increwe of local heat

PRIC OLDRING M D

Fulton J F Vasomotor and Reflex Sequelae of Unflateral Cervical and Lumbar Ramisectomy in a Case of Raymand's Disease with Observa tions on Tonus Ann Su g 1928 lattem 827

The case reported was that of a patient who originally entered the hospital afflicted unmistal. ably with Raymand's disease in all four extremities I radial penartenal sympathectomy was done first

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Armour D Some Considerations an Head In juries Proc Roy Soc Med Lond 1928 xm 11

This article is limited to a consideration of head in suries without skull fracture

Over a century ago Bell advocated more conservative treatment of braza paymers. Because of erroneous conceptions stall being advanced by the text books many lose supht of the fact that the skull fracture is of much less importance than the type and degree of anyury to the braza. Concesses as defined by Trotter is a transient state of instantionary on the contractive of th

postconcussion neurosa
Headache one of the most common symptoms
following concussion, is probably due to a disturb
ance of the normal pressure relationships in the
certificipated and decrease of concussion
and decrease of crasses of concussion
to the control of the concussion of the concussion
and increased sugar as well as changes in
the tentano of the spinal fluid The factors of
secretion absorption and circulation as well as
those which determine the volume of the craims
those which determine the volume of the craims
toon for the increase in fluid tension. A decrease in
tension is not 50 cessily explained.

Clinically there is a parallelism between blood pressure and spinal fluid pressure but the former is not a safe index of the latter except in the late stages or extreme conditions. The significance of the presence in absence of blood in the spinal fluid is often overstressed. The all important factor is the fluid pressure.

The pupils sary in size and reaction in hight The pupils sary in size and reaction in hight could be received to the degree of shock and the size of the preferal compression. Crainal nerves are ruptied in about 12 per cent of head injuries Repeated observations should be made of the optic darks as the degree of papilledem as often proportionate to the seventy and duration of the internal compression. The earlier changes are vero engorgement followed by blurring in first the masil and later the temporal marging.

Lumbar puncture should be employed more fre quently as a therapeutic measure in both acute and chronic cases but its danger should be remem bered and the fluid withdrawn slowly The use of hypertonics is another valuable means of reducing pressure non surgically Glucore is the safest of the substances thus far tried out

ALBERT S CRAWFORD VID

Symunds C P The Differential Diagnosis and Treatment of Cerebral States Consequent upon Head Injuries Brit M J 1923 u \$29

This article deals chiefly with the definition differential diagnosis treatment and prognosis of cerebral concussion and major and minor contusion, but touches briefly upon intracranial arterial hemorphage and subdural hematoms

Concussion is defined as that condition of subtotal cessation of cerebral function which immediately fullows an injury to the head lasts only a lew moments and is succeeded by complete recovery NIDMA twenty four hours

Major contusion is defined as a condition following concussion in which the patient partially regains has senses but remains stuporous restless and initiable for weeks and then shows gradual improvement.

Minor contusion is defined as the condition following concussion in which the patient complaint? several weeks of hesdache giddiness and mental disability.

Of seventy-one patents traced by the subset at least a year after the accident which brought their under his care twenty-eight (25 per cent) of the fifty four who had suffered from a mone or thousand and we (25 per cent) of the twenties who had suffered from a mone continuous over soften the work that the contract of the contract of

Graff E L. A Gase of Congenital Cerebral Annu rism Guy s H sp Rep Lond 1918 [xxvii 40]

Grafi reports a case of fatal rupture of a neuma of the night posterior cerebral artery as a maneutly file years of age. The Computer has to doubtedly all congenits to the Computer has to the congenits of the Computer has to the part of the congenits of the first state age at ten years the second at the age of the jears and the chard one year prior to the final repture.

Lattle could be learned regarding the details of the int leakage but it came on saidedly while the int leakage beating over to lace his shoes resulted in unconsciousness for twent four hours and confined the patient to bed for three weeks. The second accident occurred soldedly while the patient was at work. There was dizagness with a right two pour just patient followed first by numbroses and then by

panhas of the left aide of the body. The patient quockly became semi-comatone lhs recovery was farily rapid and after five weeks the only abnormal sugars ere slight residual motor and sensory impair ment on the left side and a persisting field defeat which had been a left lower quadrant hermanopsia. The months later it was observed that these impairments had persisted and there was lateral postagemus of both eves. The diagnosis at that time was disseminated scierosis. The thrid attack came on when the patient arose from bed after bong ill the time as in the previous attacks but there also loss of concounsess. Recovery was again rapid with the same residual invasirances.

The fourth and final attack, came on after a day or won! The pattent became deeply unconscious complete parens developed on the left side and there was a devergent straintaines but no sign of meningral uritation, was noted. The pupils did not react to behat. The right pupil was woldey dilated and the lift of pan point size. Lumbar puneture showed in treased pressure. The fluid was almost pure blood reased pressure.

Death occurred after about menty hours
At sudony, no signs of attentockross or cardio
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variable disease were found. The hundened hearle
altery measuring about 34 by 2; in The course
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ALBERT S CANNERD M D

SYMPATHETIC NERVES

Leriche R and Fontaine R An Experimental and Glinical Contribution to the Question of the Innervation of the Vessels Sirg Cy cc & Obst. 1918 zl 11 631

The authors investigated the effects of pain producing substances local anotheran heat cold stratum, solutions and time in cases in which the intervation of atterns had been disturbed by periodic and the substance of the substa

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After a peniarterial sympatheetomy the contraction of the arterial segment operated upon is the result

After apendarerans) mpaneered upon is the result of the artenal segment operated upon is the result of direct trauma to the intramural perpheral centers. The contraction lists only a few hours and the vaso dilation which follows it is produced by long reflexes. For this reason it may be blatteral and even produce modifications in the maximum and minimum presure and the oscillatory index in all four extremities.

Penarteral sympathectom; changes the circula ton in the extremity operated upon and produces an increase in the local beat. The local changes are less marked than those following sympathectom; because penarteral sympathectom; interrupts feeer pressor fibers. The hyperemia is less murked and less pensistent than after the operation on the sympathect trush.

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The motor timervation of the vessels is due to peripheral nerve plexibes in the arterial wall itself
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4 Viore complicated and longer reflexes exist
5 Every vasomotor reaction should be consid-

ered from the standpoint of its influence upon the general circulation and upon the local circulation of the limb subjected to operation

The authors state that then theories of vasomotor activative are not contradicted by anatomical facts. They contend that even though vessels may be segmentably innervated pernaterial sympathectom, may through long reflexes produce general changes in the circulation and lower attende capillary pressure by the suppression of pressor fibers thus producing an increase of local heat

FRIC OLDBERG M TI

Fulton J F Nasomotor and Reflex Sequelæ of Unflateral Cervical and I umbar Ramisectomy In a Case of Raynaud s Disease with Observa tions on Torus 1nn Su £ 1928 [XXXVIII 827

The case reported was that of a patient who ongually entered the hospital afficied unmistak alily suth Raynaud's diseale in all four extremities A radial penartenal sympathectomy was done first

and later a right ramisectomy involving the fifth sixth seventh and eighth cervical the first thoracic and the second third and fourth lumbur ram. In addition the lower end of the sympathetic trusk was severed. The patient was followed for a vear subsequent to the operation. The observations made in this case are symmatized as follows.

I Immediately after the second operation (the first was unsuccessful) all deep reflexes which pre operatively had been equal were markedly depressed upon the side operated upon. In the night lower extremity the pulse became more full and the right foot became 3 degrees C narmer than the left foot. Horner's syndrome was noted on the right side. 2 De vear after the operation the alteral reflects. Home as switching and the thermal differences were still persisting. There were no fur their symptoms of sischeman in the right foot but the right hand was not appreciably benefited by the operation. In the right lose testimetry a great ranners and well marked distinution of resting testimetrial and well marked distinution of resting testing the results of the right persisting the results of the re

of tonus) had existed since the operation
The article contains tables of skin temperature
observations made with the new and accurate Bene
that thermocouple

FER ODDREY M.D.

SURGERY OF THE CHEST

CHEST WALL AND BREAST

kilgore A.R. Chronic Cystic Mastitus—fts Relation to Cancer of the Brenst Californ a & Il est

In the non productive non hyperplastic type of chronic mastitis the blue-domed eyst of Bloodgood is the end result. This is a simple serous non malignant fibrous walled cost unlined by epithelium

In the productive or hyperplastic type of chronic mastitis the epithelial lining of the ducts is pro-liferated first into several layers or folds and finally into papillomata of macroscopic size composed almost entirely of crathelium.

Cancer arises from epithelium only Few cancers springing from serous exists of the breast have been reported. In the productive hyperplastic type of chronic mastitis the development of cancer is

common

In the non productive type of mastitis removal of the mass with a small amount of the surrounding issue is sufficient. In the productive hyperplastic type the removal of all it use involved is necessaria.

TRACHEA LUNGS AND PLEURA

PALL W SHEET M D

Ochsner A Bronchography According to the Passive Technique The Method of Choice for the Roentgenologist Aud Jogy 10 3 x1 412

Following the discovers of the Yrays many attempts at bronchographs were made but before the introduction of iodized oil in 5022 thes were sellom successful. Since 1022 bronchographs bas

become a sell established procedure. Bronchography is indicated in all chronic pul Bronchography is indicated in all chronic pul monary affections in which the diagnosis is not clear tiseries as a means of differentiating between bronchies tasses and lung abscess and between bronchies clear and pulmonary tuberculosis in cases in which the tubercle bacilit have not been found. It will recall tumors and structures of the bronchis the tubercle bacilit have not been found. It will recall tumors and structures of the bronchist the degree of collapse of the bronch and the degree of collapse of the bronchist pulmore than the degree of collapse in all these of cough pers ting for more than four months and the season of the seaso

The filling of the branchial tree must be observed under the fluoroscope as the oil squackly asparated into the alwedi and the resulting hazaress may obscure the dilated bronchus I lates should be taken for confirmation and record. By turning the patient and viewing the chest from different angles trons of magnification may be a voiled.

The method used by the author to introduce the sodized oil into the bronchi i known as the passive

Meer the mouth has been cleansed with method an antiseptic mouth wash the anterior tonsillar pullar is swabbed with a 10 per cent solution of cocaine from the uvula to the angle between the pillar and the tongue When the swallowing reflex has been abolished as determined by immobility of the larvax on attempted deglutition the patient is given 3 or 4 c cm of 3 3 per cent solution of novocain and instructed to tip the head backward protrude the tongue lean toward the affected side and breathe. The novocain is given to allay the cough The pillars are then again swabbed with cocaine as its effect is of short duration and the fluoroscopic examination is begun. The patient then takes to come of sodized oil into the mouth and aspirates it as before leaning toward the affected side After expectoration of any saliva 10c cm more are aspirated and a plate is taken. This procedure is not unpleasant to the patient

George A Collett M D

Stovall W D and Greeley H P Bronchomycosis

J Am M Ass 1928 xci 1346 Stovall and Greeley report eighteen eases of pri

mary infection of the lung by yeast like or other fung. They were able in each case to isolate the invading organism. A review of the literature shows a pauesty of such cases due no doubt to the fact that these organisms are not sought for in routine exammations of the sputum.

In twelve of the eighteen cases in which the fungus alone was considered responsible for the condition the organisms isolated produced lesions in animals

The authors classife the organisms morphologically into two groups (1) the yeast like forms cryptococci ordum monilia saccharomyces and endomyces and (2) the filamentous or bacillary forms such as the actnomyces group in the mild type of infection there are very few

symptoms and improvement results after several months of mild illness. The severe type in not un like tuberculous but its symptoms are not so severe as the extent of the pathological changes would suggest. There is a moderately severe cough with exact expections of mucopurulent material which exact expections of mucopurulent material which mormal or slightly elevated while the mercase in temperature is only slight.

The authors believe that in the absence of any other etiological evidence a diagnosis of bronchomy cools is warranted when sputum examinations show

costs is warranted when sputum examinations show the presence of yeast like or other lung. Of the eighteen patients seen in the last two years one is dead and the others are in various and later a right ramisectoms involving the fifth sixth seventh and eighth cervical the first thoracic and the second, third and fourth lumbar ram. In addition the lower end of the sympathetic trunk was severed. The patient was followed for a year subsequent to the operation. The observations made in this case are symmatized as follows:

Immediately after the second operation (the first was unsuccessful) all deep reflexes which pre operatively had been equal were markedly depressed upon the side operated upon In the night lower extremity the pulse became more full and the right foot became 3 degrees C warmer than the left foot the three states of the side of the side of the three syndrome was noted on the right side. 2 One year after the operation the alread reflexes. Horners a syndrome and the thermal differences were still persisting. There were so far their symptoms of sickensis in the right foot but the right than dwas not appreciably beenfeld by the operation. In the right lower extremity a per manent and well marked diminution of resting them (as estimated the assuming that he lace get is a rational difference of the right of the right lower than the right lower than the right lower and the right lower than the

of tonus) had existed since the operation
The article contains tables of skin temperature
observations made with the new and accurate Bene
duct thermocouple
Exic Olionesa UID

and the they occur most frequently in cases operated upon by sargons whose technical care of the wound and hemostass are faulty

Abscess of the lung is but one of the many climical forms of postoperative sequelæ which may have a

common etiology

Expeniential attempts to cause the formation of an abores of the lung by introducing bacteria and lorega bodies into the broachi were uniformliv us accessed, but when bacteria were brought to the lung in capsules or small segments of a ven in the lung in capsules or small segments of a ven in the form of an embolius abooss formation frequently resulted. B cterns brought to the lung in the form and the segment of the lung in the form montal. In other experiments attempts were more montal in other experiments attempts were more montal. In other experiments attempts were more montal to design and the produce must defected to coughing and to produce must defected to coughing and to produce must defected to footnome bodil.

The investigations permitted the conclusion that Leg aborets on be produced in dogs by the lodg ment of an infected embolus that diffuse pneumons in rapidity of basing and even lung aborets i éc.-tm...d by the balance between the immunity of the bost and the virulence of the organism and that perhaps in man the chromott is due to second are urarison by mouth bactern.

The lesson is applicable to the larger field of all potoperative pulmonary complications. The evidence suggests that some if not most lessons of this type are the result of embolism due to surgical manipulations and that a gentle technique and

manipulations and that a gentle technique and perfect asepsis will do more to obviate them than improvement in anæsthetie apparatus

MILLIAN E SERCETETON M D

Hedblom C. A Joannides Vf and Rosenthal S Pulmonary Abscess—An Experimental Study Ann Su g 1918 txxvvu 823

Pulmonary abscess has been ascribed to the appur tion of infected material from the oral or on acplaryn-all passages and to the cutrance of infected embel into the pulmonary tissue by way of the hlood stream. The latter view has for its support the treminental work of Cutter who produced such abscesses his injecting infected embols into the pigutar vian. The former view has been supported by the discovery of aspirated material in the above of aspirated material in the above of aspirated by the findings of Lemon who noted aspiration of in cas and other substances during the course of first-ral anaesthesia. Lemon found all to that lowering of the fixed below the level of the feet prevented Spiration in the animals used for his study

In a bronchoscopic study of 100 patients under foreign toxistlection under light peneral amerikean lyeron found that abolition of the cough reflex is of reat importance in aspiration. Of 22 cases in which the cough reflex was not aboli. Fed blood or muca was found below the lary nai noif 4 whereas of 3 cues in which the cough reflex was abolished blood or mucus was found distal to the laxvax in 2

Corper found that in dogs and rabbits placed in a bonzontal position aspiration of fluids introduced into the nose occurred readily only when anaesthesia was induced

Other factors of importance in the etology of pulmonary abscess are the nature and virulence of the infecting organism. The organism is wall found in pulmonary abscesses are known under the general name of fuso pirochetes and progenic bacili dipole the control of the pulmonary of the pulmonary

In the experimental work reported in this article 67 intrabronchial injections of infected materials were performed. Abscess es were produced in 20 animals (29.8 per cent). The authors results and

conclusions are summarized as follows

Aspiratory absce ses can be produced in the dog if the cough reflex is controlled sufficiently long to allow the infected liquids to settle in the alvcoli The greatest number of absces es (, r per cent) occurred in dogs which received fresh blood mixed with spu tum that contained numerous fusospirochates mixed with progenic organisms. Progenic organisms mixed with blood did not cause abscesses. A lower per centage of abscesses was produced by the injection of gastrie contents prorrhora scrapings or combina tions of these mixed with small pieces of tonsil and teetb In one instance an abscess the size of a hen s egg was found seven days after the aspiration of sputum muced with fresh blood. The fact that thi abscess was not in communication with a bronchus seems to disprove the theory that in contradisting tion to embolic pulmonary absces es aspiratory abscesses are not walled off

MANUEL E. LICHTENSTEIN M D

HEART AND PERICARDIUM

Kahn M. H. and Barsly J. Angina Pectoris. A. Climical Analysis of 200 Cases. Ann. Int. Med. 1918 u. 401.

The authors present the findings of a study of 200 cases of angina pectors under observation for a period of several years. They state that while the typical picture is easy to recognize borderline cases present a modified clinical picture that may cause Angina minor' is a term applied to a rather transient attack of anginal pain of moderate seventy In addition to these mild cases there are those with prodromal symptoms Prodromal symptoms occurred in 83 of the 200 cases reported. These are cases which are easily overlooked until a typical attack occurs some time later Most commonly the patient experiences a hurning sensation or hurning pain behind the sternum for a considerable time before an attack. Wild dyspaces with polpitation is also frequent. Less often there is fatigue on exer tion loss of consciousness or paroxysmal tachy

with variable success

MANUEL E LICHTENSTEIN M D Archibald F W

The Selection of Cases of Pul monary Tuberculosis for Surgical Interven tion Yes Farland J Med 1918 excit 1025

are not doing so well Potassium iodide copper

sulphate the I rays and thymol have been used

The first and largest group of cases of pulmonary tuberculosis suitable for operation are the chronic chiefly unilateral fibrotic and ulcerative cases un complicated by an active process in the other lung I attents with this type of tuberculosis of the lung are adults with a long standing infection who show marked resistance. They are the good chronics who in spite of treatment never progress far enough to resume community life

Of thirty one patients of this type whose cases are reviewed two died following operation. One died from typhoid fever seven weeks after the operation and after an excellent postoperative recovery The oth r died from scute pneumonia in the other lung eight days after the operation which was done in one stage. Of the remaining patients tuents-one were operated upon more than eighteen months ago and of these half have been cured and the others show marked improvement

The second large group of cases discussed by the author are the chronic cases in which treatment causes improvement for about a year but the le sions then pread the cavities increase and th fever recurs For this group also operation is advised at though the mortality is a little higher and the prog nosis is less favorable than in the first group

A third group of cases are those called the poor chronics which show o steady advance in the dis In these also operation as advasable as in the majority it results in improvement. The primary mortality is high but without operation recovery never results

Cases in which although the process may be uni lateral eavitation and fibrosis are both excessive and the patient shows evidence of years of infection are terminal cases in which there is nothing to be done

Other classifications and subgroupings may be made but in the main they are relatively few except in the large group in which artificial or acquired pneumothorax has been maintained for the early exudative forms To the intermist is left the task of deciding when pneumothorax should be allowed to lapse but the danger of rupture of the cavity into the artificial mneumothorax with resulting empyema must be constantly borne in mind On the whole it is better to substitute a thoracoplasty for a pneumo thorax because a thoracoplasty obliterates the pleu WILL AM F SMACKLETON M'D ral space Thearle W H Surgical Operations in Pulmonary

Tuberculosts Cal forms & ti est Med 1928 EEE The surgical procedures recognized as valuable aids in pulmonary tuberculosis are phrenicectomy

pneumolysis artificial pneumotherax and erica pleural thoracoplasty Phrenicectomy and page molvess are of value chiefly as supplementary measures to artificial pneumothorax and thoracoplast; The author discusses the purpose of the various operations the selection of the cases the pre-operative and postoperative care and the results Twelve cases of operation for pulmonary tuberculosis are reported

Thearle agrees with Brown that if a patient with a large unilateral process shows no definite improve ment after rest in bed for from two to three months the advisability of phrenicotomy pneumothorax or thoracoplasty should be considered and that in all cases in which cavities of any size are demonstrated by the \ ray active surgical interference should be considered at once DATE C ROSPORT MI

Carter B & Surgical Collapse of the Chest Wall as a Method of Treating Pulmonary Tuber

culosis J Wed Cincinnati 1918 is 431 Extrapleural thoracoplasts consists to the resection of portions of the first to the tooth or ele emb ribs inclusive from their articulations with the spine The resection is done subperiosteally. In gracial from 12 to 15 cm are removed from the fourth to tenth ribs anclusive from 6 to 8 em from the second and third ribs and 3 cm from the first rib The first rih should always be divided as the chest wall hangs upon it and complete collapse d pends on its division Partial excusion of the eleventh no allows the draphragm to rise and partially paralyzes at effects of amportance in lesions toward the base of the lung

The operation should be performed under local or light nitrous oxide anæsthesis or both.

Collapse of the chest places the lung at rest col lapses the walls of cavities lessens the movement of the lymph thereby preventing transmission of the disease into new locations in the lungs and stimu lates fibrous tissue formation in the compressed lung

It is indicated for the chronic fibrous type of pul monary tuberculosis with or without cavity forms tion and for essentially unilateral pulmonary tuber culo is in a patient with good resistance in whom satisfactory artificial pneumothorax cannot be in tion and A McKnight Mt D duced

The Experimental Production of Cutler F C Postoperative Abscess of the Lung Edinburgh If J 1928 TXX1 223

Many years of careful study of postoperative put monary complications has led to the belief that such complications are due largely to embolism from the wound rather than to inhalation and aspiration This opinion is supported by Mikulicz who first pointed out that pulmonary complications follow of erations under local an esthesia about as frequertie as they follow operations under general inhalation anasthesia that they are more frequent in septic cases that their incidence has not been reduced by the great improvement that has been made in the

able to swallow solid food with ease. The patient with stricture of the esophagus should he treated for the rest of his life When a sound the size of the little finger can be introduced with ease the author teaches the nationt how to introduce it himself and instructs him to use it at least once a week

Of the 201 patients treated by the method de scribed 12 (4 1 per cent) died-some from perso ration and some from other complications

Frequently in cases of stenosis foreign bodies become lodged in the strictured area. During a five year period 148 resophagoscopies for foreign bodies were done. In 44 of these cases the stricture was due to lye poisoning. In such cases it is a technical error to attempt to push the foreign body down with a sound The foreign body should be removed with the resophagoscope VON LOBMAYER (Z)

Mollison W M Dysphagia Due to Pharyngeal Paralysis J Laryngol & Otol 1928 vini 769

Difficulty in swallowing due to paralysis of the pharyngeal wall is uncommon. It occurs in lesions of the medulla such as localized hamorrhage or em bolism in bulbar paralysis in intracranial conditions such as tumors or pachymeningitis and in extracranial conditions such as foreign body injuries tumors lead poisoning and diphthena

The author reports three cases of pharyngeal paralysis following severe straining. In two cases somiting and in one case whooping cough preceded what is believed to have been a hamorrhage in the bulb involving the nucleus ambiguus. The three patients recovered except for difficulty in swallowing due to localized nuclear damage

One case is reported in which evidence of embo lism was present. The pharyngeal paralysis devel oped presumably from embolic blocking of a vessel

to the nucleus ambiguus. The patient died Two cases in which polio encephalitis preceded the paralysis are reported The prognosis was regarded as good in one and recovery was complete in the

Other

One patient had a gunshot wound at the base of the skull with damage to the minth tenth and eleventh nerves as they emerge from the jugular foramen Dysphagia was permanent. In another case a tuberculous gland was thought to impinge unon the same nerves giving rise to dysphagia MANUEL L LICRTENSTEIN M D

An Intensive Study of the Thymus Bloom C J South W J 1928 XXI 905

Bloom discusses the common symptoms the methods of diagnosis and the treatment of thymic disease on the basis of 127 cases. He states that the diagnosis is now made at an earlier age than it was made formerly

In the cases reviewed the ratio of males to females was 11 9 Many of the patients were Jews and Italians It was found that the body weight and the shape of the body are of no significance as regards

thymic disturbances The major signs of thy mic disease are nervousness mability of the infant to cry restlessness cyanosis dispucea stridor extreme pallor attacks of weak ness and accelerated breathing Minor iodications are a poor appetite refusal to eat solid foods lymphatic involvement flabbiness of the tissues n cough eczema asthma vomiting and a familial history of endocrine disturbances

In the cases reviewed the diagnosis was based primarily on the objective signs. In 4 cases in which a positive diagnosis was made and in 5 cases in which a probable diagnosis was made before roentgen examination the \ ray findings were negative. In all of the others the diagnosis was confirmed by the roentgenologist

There were only 2 deaths neither of which could be attributed to the thy mic disease alone. One was due to a ruptured spina bifida and the other to bronchonneumonia

In conclusion Bloom states that the only treat ment for themic disease is \ ray irradiation

WILLIAM F SHACKIFTON M D

cardia Tender spots on the chest wall over the sternum and pectoral regions were present in 65 of the 200 cases

Twenty two per cent of the patients had their initial attack before the age of forty years while almost 40 per cent had their first attack between the ages of forty and fifty years The ratio of males to females was 3 1 Seventy nine of the 200 patients gave a history of recurring tonsillitis and in a history of acute articular rheumatism Rheuma tism is to be considered as a possible cause of the condition Only 8 patients gave a positive history or blood test for syphilis. I wenty three were di The importance of tobacco and alcohol abetics in the causation of anging pectoris is disputed That arteriosclerosis is the outstanding condition is indicated by the tortuous peripheral and retinal vessels areus senilis and arteriosclerotic renal changes. In the cases reviewed the arterial blood pressure did not appear to be an etiological factor. The largest percentage of the patients who died had normal systolic diastolic and pulse pres sures. In 62 cases the first cardiac so and indicated a poor muscular quality and in 57 cases a rough systolic murmur was heard. In only 6 cases was the disease associated with rheumatic initral stenosis

Of importance in the prognosis are the associated clinical symptoms of cardiac asthma pulsus after nans a systolic gallop rhythm and the occurrence of cyanosis on exertion or with an attack. The con currence of gall bladder duease and coronary disease has been noted by many Willins reported the presence of gall bladder disease in 26 per cent of proved coronary cases The differentiation of the

two conditions is of utmost importance There were so deaths in the cases reviewed Patients whose first anginal attack occurred before the age of forty years aurvived for from six to nine years When the first attack occurred after the age of fifty years the period of survival was considerably shorter and when the first attack occurred after the age of sixty years the period of survival was less

than six months

The treatment is palliative. In cases with spasm of the coronary vessels diathermy has been of some benefit Sympathectomy has relieved the pain of an attack and thereby eliminated vagal inhibitory

On the basis of this series of cases the authors suggest the following classification

1 Angina pectoris due to aortic disease (a) prodromal (b) with hypertension (c) with aortic atheroma (d) with nortic regurgitation (e) with aneurism of the aorta (f) with aortic stenosis (g) with other pathological lesions

2 Angina pectoris with coronary disease (a) with coronary arterial spasm (b) with left coronary involvement (c) with right coronary involvement (d) with coronary capillary involvement

3 Angina pectoris with rheumatic disease (a) with rheumatic myocarditis (b) with mitral MANUEL E LICHTENSTEIN M D stenous

ESOPHAGUS AND MEDIASTINUM

Campian A Strictures of the Esophagus from Lye Polsoning (Ueber die Speiseroebren erenger angen durch Laugenvergiftung) Orion Hehl 10.5 1xx11 385

La e possoning due to attempts at suicide is usually very severe because as a rule a large quantity of a conceptrated solution has been ingested. Accordingly, such cases present extensive changes which do not respond to treatment in the same way as he

possoning in children or accidental lye possoning The Iye exerts its strongest action in the physiclogically narrow parts of the tube where the esoph agus crosses the north and in the region of the cardis Concentrated solutions cause disturbances in the submucesa and in the muscle layer which lead to necrosis At these sites cicatrices and shrinkage occur and form strictures. The scars which can s strictures extend through the eotire thickness of the amophageal wall

Recently Salzer attempted to prevent the development of stricture and in children he obtained good results In the Rhinological and Laryn, o'ogical Choic in Budapest his procedure was used in 10 cases of attempted suicide in adults. Four patients (14 8 per cent) died from perforations caused by the dilatation treatment The cause of this high mor tality was not an error in the technique but the severity of the lesions the ersophagus be no trable and easily torn as was demonstrated at autopsy

when it crumbled between the fingers As Lothessen and Liselsberg have noted the occurrence of spontaneous perforation at can be readily understood that in severe eases even the most careful and shillful dilatation can cause perforation The exophageal wall unde gres such marked anatomical changes that the introduc ion

of even the softest catheter is dangerous The author was unable to prevent scar formation and stenoses even in cases in which the dilutation was well borne In the two or three weeks of trest ment it was necessary to use progressively themer sounds In r case the stenosis rendered ga trostomy

As Salzer treatment does not prevent the forms tion of stricture and is associated with the danger of

perforation the author regards it as madequate Besides the 27 cases already mentioned the author treated 291 other cases of lye poisoning in a period of three years The treatment vas begun from two to three weeks after the poisoning and the stricture was dilated gradually Orten the author males an esophagoscopic examination as this will reveal the character of the scar and stricture and its site in the lumen Frequently it is impossible to introduce a sound even when the patient is able to snallow Esophagoscopic examination will then show that the opening is eccentric. In such cases the author dilate with the aid of the asophagoscope. In th beginning the treatment is given daily but later it

is given only every two days as long as the patient is

berms. His investinations revealed the occurrence of 3 types of trum. (1) the masculine type (broad chest and narrow pelvis) which was found in a fully developed form in only one half of the men (2) thefeniume type (narrow chest and wide pelvis) and (1) the transition type (5) Indirectal shape). In the 70 cases of inguinal hernia examined the masculine type of trum was found in 21 per cent and the ferniume type in 76 per cent. Men with a trumb of the femineme of transition to a new presence of the femineme with the feminement type of trumbine type of trumbinement in the feminement type of trumbinement is and occurs early early and occurs early early

OPPEL (Leningrad) stated that on the basis of 2000 herms: he prefers the Roux operation. Re lapse occurred in from 4 to 15 per cent. There is less danger from suppuration after the Roux operation than after the other methods. Abdominal must

cle exercises are unnecessary

STEPANANC reported that he had operated on 708 patients with nagural herms and on 22 with femoral herms by Bassims method. Recurrence developed in 43 (6 per cent) and strangulation in 46. Three patients shed 2 from strangulated herms. Stepan jane was silk sutures. In 10 cases of ingunal herms and 1 case of recurring femoral herms that the ureter was situated in front of the hermslass.

Divayn reported that of 477 operations per formed hy him for inguinal herma. 13 (27 per cent) were followed by recurrence. In 6 cases the cause of the recurrence was starvation (recurrence after in years) in 3 eath; return to hard work, and in

MARTYON (Moscow) stated that he does not approve of the Wenglovsky method. Since in the cases in which he used catgut the inculence of recurrence was to per cent he now sutures with silk.

VILLUT allows the patient to flex his kness mame dutely after the operation and to turn on his side after a short time Elderly persons especially he allows to sit up on the third or fourth day and to wall, on the fifth or sixth day. Recurrences appear mag seen electen or twenty years after the operation he believes are not recurrences but new herms.

Scinvarz recommended Andrews method on the

Straje (Lemngrad) reported on 100 inguinal and 9 imbilical hermin in children ranging from one month to fourteen years of age Girard's method

was used in most of the cases with entire success In 8r cases general anexthesia and in 36 cases local anexthesia was employed. Four hermic were strangulated. There were 2 deaths a mortality of 1 o per cent. The most favorable age for the opera cross of the success of th

GORELIAO Stated that he approves Bassinis operation. He reviewed 482 cases of inguinal her nai in 446 (0.25 per cent) of which this operation was done. Suppuration occurred in from 1 to 1.5 per cent. In Gorelito 5 opinion there is no relation ship between the shape of the trunk and the occur

rence of hernia

CACCHIANI (Thills) reviewed 625 operations for herma most of which were performed according to the Bassim method with the use of silk sutures. Suppuration occurred in 3 per cent. Local anasthe is a nas employed in 800 per cent. Recurrence devel oped in about 5 per cent of the cases of recurrence were technical errors suppuration hermationa pullmonary computations a poor state of nutrition a weak constitution weakness of the abdominal walls multiple herma strophin of the abdominal wall from the westing of a truss early setting up and early hard work.

KULAKOV reported on 636 operations for inguinal hernia and 44 operations for femoral hernia He prefers the Girard and the Roux Herzen methods WREDEN stated that in his opinion Bassinis

method is indicated for indirect inguinal hernia but is not suitable for direct hernia. For the latter plastic operations must be done

Gir-Striv reported that in 18 000 miners who here free from herma at the time they seek hred only roo herms developed in the course of one vear in spite of hard work and unfavorable conditions. We of the herma were operated upon by the kocher method. The patients left their beds on the second or third day after the operation were discharged on the mith or tenth day, and returned to work the end of thirty days. A recurrence developed in 5 (5 per cent). Ginstein stated that the chief factor in the development of berma is a preformed hermal

SCHACK (Leningrad) reviewed 86 operations for femoral hermia 46 of which were done according to the Reich method. He is in favor of the inguinal method of operating on femoral hermia. For inguinal hermia he uses chiefly Grard's method.

PANLENNO (Leningrad) stated that good results were obtained in 20 cases of femoral herina hy Wreden a musculo aponeurosoplasty with Sevkunen kos modification. From the external margin of loupart's ligament was cut a strip which drawn through the pectineus muscle strengthened it and was sutured with it to its former sit to n Dupart's

Influence on the incidence of hernia and that long

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Sozon Jarokevič Bobrov Stebiln kaminsky and Others Discussion on Radical Operations for Inguinal and Femoral Hermi and Thele End Results (Juspirache urber die Ha histoperationen der Lei ten und Schenkelbrueche und ihre Dauer tesulate) Lerhandi d 18 Russ Chir Kong Vioscow 1927 p. 52

Forty five speakers took part in this discussion Sozon Janosavic (Leningrad) reviewed 1780 operations for inguinal hernia. One hundred (56 per cent) were followed by recurrence. In 37 per cent of the latter the cause of the recurrence was suppuration in 6 per cent a hamatoma in 5 per cent a technical error in a per cent too early get ting up (on the seventh day) and hard straining and in 50 per cent an undetermined factor. The undetermined factor in the last group was related to the patient's constitution. This was evidenced by the facts that in this group the same type of herma recurred repeatedly (as many as 4 times) that the former anatomical relations were re estab lished and that direct hernix recurred 8 times more frequently than they developed while indirect hermas recurred only one third as many times as they developed. In direct hernix it is chiefly the nosterior wall of the hernial canal that is unsufficient whereas in indirect hernix it is chiefly the anterior wall that is unsufficient. Hence in operating on indirect hernie particular attention must be paid to strengthening the antenor canal wall whereas in operating on direct hernix plastic re in forcement of the posterior wall is the main object In Federov's clinic the Roux method is used for indirect hernix in the initial stages. In all other eases excision of the hernial sac is done as high up as possible. For pronounced indirect and concenital herniae the methods of Bobrov Girard and Bassini are con idered good For direct hermae plastic methods are preferred. The patient is kept in bed for two weeks and is forbidden to work for six weeks Bouggy (Veronezh) reported on 1 080 operations

for inguinal herita performed on 742 patients. One thousand and twenty of the operations were done by Oppel's modification of the Roux method. These were followed by recurrence les frequently than other procedures. In 13 per cent of the cases with recurrence there were repetated relapies. Recurrence was most frequent in cases of direct herita. In 95 oper cent of the cases healing occurred by first the tion in 9 cases (6.83 per cent) there was pinuary suppuration and in 35 cases (5.22 per cent) the ligation sutures gave way. For deep natures. Bohrow recommends non absorbable material.

STEBLIN KAMINSLY (Moscow) reported on 870 operations for inguinal hernia performed on 755

patients Bohrov's method being used in the majority and on 60 operations for femoral being chiefly by Prokumin's pectineus musculoplasty

Suny reported on 491 operations for hems to per cent performed by the turnal Bohore ruthol to per cent by the Bassis method and per rest by the Rossis method and per rest by the Kocher method. The mortative was precent. The permanent re ults were determined for 140 esses. In o per cent there was pus in stroperative wound on execution. In 7 per cent, the lightness gave way and there was a long-continuous fistulia. In 8 per cent a recurrence developed, Ins. case 4 operations were performed.

Uspensky (Tver) recommended the Rous opera tion with which several thousand inguing hem ? have been repaired. Strangulated berma he treats according to the Girard method, suppursh a occurred in from 5 to 6 per cent of his cases. The incidence of recurrence after the Roux operation was 10 g per cent Recurrence was most frequent i elderly patients. In patients between the twentith and fortieth years of age the incidence of recurrence was 6 5 per cent and in those between the fortieth and seventieth years of age 143 per cent here theless the Roux method is superior to the Busan method as the Rour operation in itself is m cheater and in case of suppuration or recurrence does not render a second operation difficult

Notace (Jalmi) reported on 45 overtiess for inquand lexius performed on 160 patients 69 reent of ahom were males. Only 8 per cent of ahom were males. Only 8 per cent of the heritae were congenital. Notacy 9 cours will be the first were congenitated on by the March 190 the March 190

BRAILEY (Noscw) regards the surreless method as the best and so opposed to plate to provide the supercluster to the supercluster to the supercluster to the supercluster to the sure of the sure class which favors cutting through discussed the sure of catgut mustificiently into discussed the best of catgut mustificiently into discussed the sure of the sure of the best of the sure of th

up too early
Moskatekko (Dnepropetrovsk) reported that in
examinations of \$373 men engaged in heavy work in
two facto ies be found 35 inguinal herias. In addtion he examined 35 other persons with irgunal

7 Spasokukocky operation This is a modifical tion of Girard's method. A large incision is made the aponeurosis of the externus and of the thin cremaster layer (tunica cremasterica) is slit and the fascia infundibiliformis or fascia transversa is slit longitudinally for a distance of 5 or 6 cm in the region of the neck of the hermal sac The transverse fascia is stripped from the sac on all sides with a blunt instrument. The freed spermatic cord and the testicle are then held firmly with the right band the neck of the sac is fixed with a toothed forceps held in the left hand and with one jerk the sharper the jerk the less the damage the distal portion of the sac is torn out ligmorrhage is absent or minimal The operation may be completed by any method preferred (Spasokukocks See Zentralorg f d gesam Med u Chir xl 726)

8 Prayin operation This is an atypical Bassini operation without displacement of the spermatic cord (\ Mikuli B Linberg See Zentralorg f d

gesam Med u Chir xxxix 737)

Matrosovitsch operation This is a suture modification of the Roux method (see discussion) to Toprover operation This is a modification of the methods of Bobrov and Girard (see Zentral org f d gesam Med u Chir xxxix 624)

RADICAL OPERATIONS FOR PEMORAL HERMA

1 Prokunin operation This is a plastic operation with flaps from the pectineus muscle and from the fascia (Prokunin Inaug Diss Moscow 1900 Chi rurgia toos September)

2 Abražanov operation (1900) A transverse skin incision is made above and parallel with Pou part s bigament and the hernial sac is ligated as high up as possible the ligature threads being left long Each ligature is then threaded onto a sharply curved needle. The needles are pas ed through the abdominal wall muscles from within outward from 152 to 2 cm above I oupart s bgament and through Cooper's ligament both threads are drawn tight and ned and the skin is then sutured (Abrazanov Russki) Vrac 1909 No 27)

3 Wreden operation (1922) Muscle closure is effected with the use of the pectineus muscle (See Zentralorg f d gesam Med u Chir vix 420

XUV 365)

4 Ilerzen operation (1924) This is a plastic re pair with periosteal flaps (see Zentralorg f d gesam Med u Chir xxx 932)

Jevkunenko operation This is a modification of Il teden s operation (see discussion)

6 Mikuli operation (1925) This is a modifica

tion of Wreden's operation without division of Poupart s ligament A longitudinal incision is made Following removal of the hernial sac and the toilet of the fossa ovalis and of the pectineus muscle a stop from 0 5 to 0 75 cm wide and from 8 to 10 cm long is dissected from the aponeurosis of the ex ternus medial to the inner column and left attached to the os pubis. The defect in the externus aponeu rosis is sutured. By means of a curved dressing

forceps forced through the pectmeus muscle from without inward the free end of the strip of aponeu rosis is drawn through the muscle. In a similar manner Poupart's ligament is pierced by a blunt instrument medial to the vessels and the strip of apopeurosis is drawn through I oupart's ligament a maneuver by which the pectineus is drawn taut and elevated. The free end of the strip is placed transversely on the externus aponeurosis and attached with a few sutures (See Zentralorg f d mesam Med u Chir xxxix 737) Kornmann (Z)

Lyle II II M Fascial Sutures for Inquinal Hermia Ann Surg 1928 lxxxviii 870

Lyle reports his clinical results from the use of autoplastic fascial sutures in the treatment of inguinal hernia in the male according to the Gallie and the Mc Arthur methods In the first cases in which McArthur autoplastic pedicled fascial flaps were used the technique was that laid down by McArthur In the others Lyle employed the mestal fascial strip to unite the conjoined tendon to Poupart's brament proceeding on the assumption that fascia unites to fascia more readily than to muscle and used chromie gut for this union

Two types of operations were performed-the standard Bassini repair and the Halstead modifi The Halstead modification violates the essential physiological principle of muscular shutter closure The rectus transplant and its variants are physiologically and anatomically unsound

In all operations excision and high ligation of the sac were done and the sac was fixed well above and out of line with the internal abdominal ring. High closure of the internal ring was effected about the cord the transversalis fascia being sutured well up behind the cord In suturing the conjoined tendon to Poupart's ligament Lyle passed the continuous fascial suture in such a manner that the conjumed tendon was shortened and its insertion into the pulse spine was strengthened. Immediately after the completion of the stage of dissection the patient was placed in the position of physiological relaxa tion To obtain this position the thigh was flexed on the abdomen and the leg on the side operated upon was crossed over the other one

In order to insure permanent union between the structures to he united it is essential to remove not only the loose gliding areolar tissue from the fascial strips but also to clear I oupart's ligament

The needle should be large enough to allow the fascia to be pulled through without dragging

After convalescence massage and systematic

exercises are indicated to strengthen the abdominal muscles

The fascial suture has been employed in 335 hermire Of the 8 recurrences 7 followed the Halstead modification of the Bassini operation and a followed the Bassim operation five of the recurrences occurred in cases of direct herma. There were no recurrences after the Callie operation

MORRIS H KARS M D

continued, standing in particular is an important factor Herma was found in 12 fee recent) of 14 lockamths: 12 (10 per cent) of 121 workers in iven foundries 5 (10 per cent) of 121 workers in iven of 65 hammersmiths: 14 (10 per cent) of 77 hlack muths: 12 (36 per cent) of 47 coppersentles 30 (31 per cent) of 65 homersmiths and 46 (31 per cent) per cent) of 65 homersmiths and 46 (31 per cent) according to the hadrows methodlebov operates

MANUJON (Lenngrad) reported on a 0.8 negunal herrin and a 15 moral herma. 87 per cent of which herrin and a 15 moral herma. 87 per cent of which were operated upon [central anxishess was used in 0.8 per cent of the cases local anxishesia in 83 r per cent and synal anxishesia in 1 per cent. Three thousand and thirty six operations were done by the Bassins method 22 by the Kocher method 135, by the Bloow method 65 pt the Curard methods 53 the Bloow method 65 pt the Curard methods 57 th except 55 deaths 4 mortality of 1 methods Th is were 75 deaths 4 mortality of 1 methods Supportation occurred in 22 cares (6 for each)

GOLYNICKY (Moscon) said that in causs of congential herna and in hernat that develops quickly after traums all of the operative methods gine good results but in cases of occupational hernas to which almost all herne of the lines aliab belong the usual methods such as the Rour and the Bassini procedures are inadequate. For the latter the passocklacks, method may be recommended in passocklacks, method may be recommended in the tissues plastic operations with translations in the tissues plastic operations with translationation of taskit etc. come into consideration

Alatrosouse reported that he operated with his on modification of the Rour procedure in 500 of his approximately 700 cases of herms. His modification con 18th in the use of single utures instead of matters sutures. On later examination in 700 of his cases he found suppuration in 5 per cent and

recurrence in 3 per cent

that as the ela ti ity of the tissues used is of chief

importance Ba sini s principle is correct

MESTANTION reviewed about 600 hermotomies the believes that recurrences occur more frequently than is generally assumed. He operates according to the Bassini Postempsky method with subcutane ous displacement of the spermatic cord. 5th sutures are used.

HACE. Tons re iened 4 000 herniotomies. Having tired out all of the methods of operating he has returned to Bassins operation. He hebeves that long and narrow hernial sea should be removed. He prefers paracreterbal anarsthessa. And has entirely abandoned general anvisthessa. He disapproves of all plastic operations on mushe and bone.

TIMOSTEV reviewed I oco cases of inguind ber in a A recurrence decloped in 3 (o.3 per cent). In the cases of children with a natirow hermal sac he resects the sac and does nothing further in a plastic way. If the transverse feason is stretched he uses pursestring sutures for the hetuial protrusion and Hassam sutures with inclusion of the lateral border.

of the rectus. When the inguinal triangle has been of irregular shape. Bassin's operation has given him the best results.

Briefly summarized the operative methods and modifications by Russian surgeons of the radical operation for inguinal and femoral herma meationed in the addresses and the discussions at the Eighteenth Russian Surgical Congre's Moccow 1926 were the following

RADICAL OPERATIONS FOR I C | AL HERVIN

1 Bobros operation (1892) This is skated with the Lucas Championin re method. The aponeurous of the externus is slit and the hemit as a excessed. The fatty tissue in the region of the canal is carefully removed. Silk button setters are placed in the margin of the inguined and it is more than the aponeurous of the fatt fatty and the aponeurous of the fatty of the control of the c

Texnin 2 Rezumowsky, operation (1807) Removable metal satures are used for (1) displacement of the fermal size and (2) suture of the canal. The spr mathe cord is not di placed. There are 2 modules attons of the operation. The method of suture can not be described in condensed form (4 kz) who

abid I Tierov Spez Chie sory iu)

3 Wenglowsky operation (1903) The reck of the hermal size is justed but the size into treased. The attachment of the internal oblique and traswerse muscless advoided at the lives talk by vertical incision of the sheath of the natienty rects, said fire mobilized lover border of the jointd attential oblique and transverse muscles is satired to Pought's ligament (Wenglowsky Operative Churque 1817).

A hymnor operation (1903) The central por too of the bermal see is to placed according to the Aocher method and anchored The pemberal portion is opened inverted and in suitume is interposed as a fold of peritoneum between the muscles and Pouparts ligament There is no the placement of the spermatic cord safety of the sponeurous's done according to the Girard teal

nique (Krymov ibid)

5 Optel operation (1921) This is a modification of the Roux method. In the haton sidure of the field of the externis aponeurous the meeter of the inner side and Propart's ligamonian Medical Coppel of the inner side are included. (Coppel operation of the inner side of the i

6 Wre ien operation (194) This is a direct plantu restoration of the posterior wall of the casel by a flap of aponeurosis from the sheath of the rectu abdominis muscle [see Zentralorg f d geain] Med

u Chir xxx 931)

of the neoplasm was very difficult on account of adhesions which had developed. Uneventful recovery resulted

The cyst was lined by a tissue showing all of the characteristics of intestinal mucous membrane and appeared to be an intestinal malformation. The fluid was free from cells and was therefore not purulent. It contained only fine transparent drop lets probably fat. Cultures were sterile.

Up to 1942 only 1950 cases of cast of the meembers, and the reprotect The most probable theory in regard to their origin is that they are congenital residung from an intestinal diverticulum or the inclusion in the mesanetry of displaced tissue from the gentlu runary tract. The cyst in the authors case was evidently of intestinal origin but contained, achylous fluid and had developed at a distance from

the intestine Cysts of the mesentery are generally very difficult to remove They develop between very vascular folds of peritoneum their walls are abundantly sup plied with blood vessels and their posterior pole hes close to the inferior vena cava and the ureter Though there is normally a plane of eleavage be tween the wall of the eyst and the peripheral vessels this plane may be obliterated by the growth of the tumor or by inflammation. The mesenteric vessels at the periphery sometimes become so greatly dilated that extirpation is impossible. The symptoms are so slight that the tumor is generally not diag nosed until it becomes large enough to be noticeable until inflammation occurs or until signs of intestinal occlusion appear. The cost in the authors case had developed between folds representing the primitive mesocolon and the posterior parietal peritoneum but such intimate adhesions had formed between its parietal covering and the right fold of the root of the mesentery that it appeared to be included in the latter and ligation of branches of the mesentene artery was necessary for its removal

The high mortality of extingation of cysts of the mesentery (25 to 40 per cent) has led some surgeons to advise marsupishization but in the authors opiuous marsupishization should not be resorted to unless extingation is impossible

AUDREY G MORGAN M D

GASTRO INTESTINAL TRACT

Rigler L G Roentgen Observation of a Benign Tumor of the Stomach Prolapsing through the Pylorus Am J Roentge of 1918 xx 329

Right reports a case of bengan polty of the towards in which it was possible to observe over sensorpically and record reentgenographicall, the Polyages of the growth through the pylorus muto the duodenal bulb. The tumor was first manufacted by a rounded certain filling defect near the pulorus which was brought out by pressure. This defect could be displaced toward the pylorus by manipula tion and subsequently was noted in the duodenal bulb.

Singer II A and Dyas F G Syphilis of the Stomach with Special Reference to Certain Diagnostic Criteria Arch Int Med 1928 xln 713

In a case in which the distal one third of the stomach was resected for a lesson believed to be a carcinoma the gross and microscopic appearances of the specimen when considered with the clinical history suggested that the changes were syphilities but in sections examined later it was impossible to find the spirochaeta pallida or the classical guimna and two experienced pathologists consulted did not consider the evidence sufficient to justify the ana topical diagnosts of syphilitie gastritis

This case and three subsequent cases of similar nature led the authors to inquire into the frequency with which the sprochetia or guinnata were found in cises of gastine synhils reported in the literature Only one report that of McVee stated that an organism appearing to be the sprochata pallida was present but in Singer's opinion the organism described and quictured was probably the suprocheta of Vincent. If this assumption is correct it is apparent that in no case reported in the literature of gastine syphilis of the acquired type has the spirochata in rollida been found.

Broster L R Gastrie and Duodenal Uleer Brit M J 1928 u 786

Broster reviews 207 cases of gastric and duodenal ulcer which were treated surgically Eights two per cent of the patients with duodenal ulcer 91 per cent of those with pylone ulcer and 75 per cent of those with gastrie ulcer were males

The diagnosis of ulcer was based upon pain vomiting and hamorrhage Pain was present in oo per cent of the eases. As a rule the pain bears a definite relationship to food. It is seldom noted before half an bour after the ingestion of food hut thereafter may occur at any time during the interval hefore the next meal. As a rule the more distal the ulcer from the cardia the later the pain. In the cases of duodenal ulcer reviewed it occurred from two to three bours after the ingestion of food whereas in the cases of gastric ulcer it occurred after from one to two hours and in the cases of pylone ulcer after from one to three hours. In only a small percentage of the cases was it unrelated to food and in a smaller percentage it occurred within half an hour after the ingestion of food In the majority of cases of duodenal ulcer the pain is relieved by food but in cases of gastric and pylonic ulcer it is most relieved by vomiting

Nomiting is of importance because of its association with pain It usually occurs when the pain is most severe. Nomiting was a symptom in 50 per cent of the eases of duodenal ulcer reviewed. 88 per cent of those of gastine ulcer and 70 per cent of those of plorie ulcer. In conditions such as places attentions and hourglass stomach its time of the condition of the conditions of the conditions of machine and character are of diagnostic sigmaticance. Andrews E. Further Experiences with Purely Fascial Herniotomy. Ann Surg. 1928 https:// 874

Andrews describes a technique for closing in, usual heriax with the use of only white fascia. He states that no one type of operation can be applied to all cases. As ever, herian is a distinct problem the surgeon should open the inguinal canal prepared to undertake the plastic procedure which will best meet the riquirements of the particular case. Many of the failures of herinotomy have here due to too much rather than too little surgery. Recurrence develops usually at the public end of the canal and not at the internal ring where the herma occurred originally.

Andrews has been treating an increasingly high percentage of cae by simple removal of the sac sometimes with a strict for two in the endo abdomi and lacast to tighten up the internal ring, and closure of the canal without further surgery. This operation is sufficient for most hermin in young children and for a moderate percentage of recently acquired hermin an addita. It is used to accept the percentage latest a first the form and about the control of the most control of the percentage of the

In old hernix a very constant finding is atrophy of the lower fibers of the conjoined tendon tendon hes a long way from Poupart's ligament. It no langer inserts onto the pubic bane but inserts onto the rectus sheath so that a wide triangular hole is left. The endo abdominal fascia is stretched and thin as it is the only structure lying between the peritoneum and the external oblique sponeuro sig Therefore the problem that confronts the sur geon is not simply the removal of a small sac but the removal of a large sac to olving considerable trauma to the cord and the closure of a large defect in the abdominal wall. The ideal procedure would be to bring the conjoined tendon down to I oupart's ligament below the cord as described by Bassani but this is possible in only about 30 per cent of the Audieus draws down the endo abdominal fascia like a shutter for 1 or 2 in and sutures it to Poupart's bigament for the entire length of the canal In this way is formed a floor for the inguinal region which should preclude the possibility of re currence The immediate results of this type of operation

The immediate results of this type of operation have been very gratifying. The rehel of pain is more marked than after the Bassimi and Andrews operations.

MOREL IL KAIN M.D.

Short A R t Symptoms Due to Mesenteric Lymphadenitis Laucet 1918 curv 009

Mesenteric lymphadeuitis is common and its marifestations are numerous. The glards of the small gut which are said to number about 200 he in 3 sets between the layers of the mesentery. Those of one set are situated close in the marga of the bowel Those of another set which are more numerous are stranged along the loops of the arternal arrades and the ram intestuales and those of another and still more numerous set he along the main trunk of the superior mescatanartery

The glands draining the ilectrical sigle are (1) the field glands in the meantrey of the termoid ideum (1) the anterior ilectrolic glands (1) the posterior ideocolic glands (1) the posterior ideocolic glands (1) the gland and excurs and (2) the appendixer for ideocolic glands (1) and the meso appendix. The gland for the glands firego not be bostly all (2) the profit glands slong the arternal strades (3) the nutritudite glands ippur gone the color and color excessed and (2) the man color excessed and (3) the man group of glands at the origin of the man color actives. Some of the levely nodes draining the color levery close to the utrier a fixed of limited importance.

In sample lymphadentis the lymph nodes are enlarged and soft white or pink on section and usually not adherent to the layers of the mesenter It is difficult to say just what degree of enlargement constitutes a pribhological state.

Mesanteric limphadeunits is very common includern. When a lymph pland if the next becomes inflamed and swells and especially when it becomes inflamed and swells and especially when it becomes adherent to and fives the principal covering print may result. It seems resorted to assume that mesentience pland are inquestly responsible for attacks of favor without are represented to the pain of appear in the or attacks and abdominal pain not related to food and without a result of the the pain of appear in the or attacks and abdominal pain not related to food and with or without a result in the temperature.

In a few cases tuberculous glands raw form easily palpable swellings in the shdomen which are rounded in outline slightly tender and fairly few in consistency. On rare occasions tuberculous me sentence glands may runture

In the great majorit, of cases a cure results in the course of tear. In certain groups of cases have ever surgical treatment is advanable. Operations as indicated when the attacks of pain are very orlent and recur at frequent intervals when the or-lar probability that the though of uncertain a fair probability that the though of uncertain attact in found in the abdomen and when an abdominal cattactophe develope.

MORRIS II KARN MD

Desgouttes L and Ricard A Cysts of the Vesen tery (A ropos des kystes du mé entire) J & chur 19 8 xxxx 269

A noman of forty nine years came to the bo pital for treatment for an abdominal tumor which six had first noticed several months before. The only samptom was a feeling of heavivess in the lumbar

Operation revealed a cystic turnor intimately adherent to the root of the mesentery. The removal Ocnit blood detected by the henzadme test is usually present in the faces at some time and indiustal ulceration. When associated with a mechanical deformity schlorhydra is strong presumptive evidence of a growth. The \times trong presumption is perhaps the most uniformity valuable of all diagnoss the procedures. To obtain the earliest evidence of a gross lesson a full harnum meal is necessary.

Cancer of the stomach should always be suspected who main dispectation occurs for the first time in middle age and especially when it occurs in a male more than fifty years old. The earliest observations in probably local arrest of the perusaltic wave in the stomach as shown by the Xrav. The tests for achyla and occult blood are of great value A patient with gastine cancer may gain weight under dietetic treatment even though his chance of cure is becoming jets frayorable. Journ W. Nazan W. In Storming Land Control of the Storming jets frayorable.

Freeman L. Partial Gastrectomy for Peptic Ul eers Coincident with Lymphosarcoma of the Stomach Recovery Colorado Ued 1928 xxv

Freman reports the case of a physican sixty years of age who for two vers had suffered from gastra distress which came on from three to four pastra distress which came on from three to four safer meals and was relieved by alkales and lood. There was no history of bleeding from the domands of howels. The patient had lost 35 hbs and was weak and exhausted. The total gastra cachity out and the fee hydrochlora can't are the blood out and the fee hydrochlora can't are the blood to the safe of the property of the safe of t

At operation the wils of the cotire transverse portion of the stomach and duodenum were found to be pale and twice as thick as normal. Near the piloris there was a firm indurated near the size of a dollar and in the gastrobeaptic omentum and along the aorta there were numerous enlarged glunds. The partial gastrotomy was performed the him of ex-

ctions passing through frankli diseased tissues. Recovery was uneventful. The puttent gained tapidly in weight and strength. Six months later moderate enlargement of the cervical and ingularily hands appeared and deep. Yas therapy and cloely a tours were given to a time. Pathermonths after the operation the stomach appeared normal on Yas examination.

Examination of the resected portion of the stom ach and doudenum revealed a uniform thickening with round celled infiltration of the stomach walls including principally the submucesa "discent to the phorus on the lesser curvature there were two mentated peptic ulcers "When sections of the montated peptic ulcers" When sections of the montated peptic ulcers "When sections of the laboration of the phorus was a second to the laboration of the property of the property of the laboration of the property of the property of the laboration of the property of the property of the wall lamphost control of the property of the property of the wall lamphost property of the property of the property of the wall lamphost property of the property of the property of the wall lamphost property of the property of the property of the wall lamphost property of the property of the property of the wall lamphost property of the property of the property of the wall lamphost property of the property of the property of the wall lamphost property of the property o

Hurst A F Recent Advances in the Treatment of Gastric Diseases Brit M J 1928 ii 779 The modern fractional test meal not only shows

The modern fractional test meal not only shows how much acid is secreted but indicates accurately the motor efficiency of the stomach and is the only means by which the presence of gastritis may be

recognized

For the development of an ulcer the presence of free hydrochloric acid is required. In the treatment of ulcer a diet must be chosen which produces the minimal secretion of acid atropin and ohive oil should be given to inhibit the secretion of acid and

alkaties should be administered to reutralize the acid

In Hurst > opinion milk should form the basis of all ulcer diets as its fat inhibits the secretion of gastric juice and its protein combines with some of the free acid Freezer Gibson and Matthews have demonstrated that milk neutralizes approximately ats own volume of o a per cent hydrochloric acid Purely carbohydrate diets have none of the neutral izing action of milk. Milk acts more satisfactorily when given in small quantities hourly than when given in larger quantities at intervals of from two to four hours The ingestion of milk every hour leads to complete achierhydria for a considerable part of the day One of the best neutralizing agents is milk combined with sodium citrate Occasionally in the afternoon and evening the presence of free acid be fore meal time necessitates the addition of alkalies

Hurst believes that the essential exciting cause of gastric and duodenal ulcer is infection. If therefore emphasizes the importance of eradicating all foci of infection. Tobreco is another factor in the etiology as it causes increased acid secretion.

Hurst limits the patient to an ulcer diet until there is complete disappearance of spontaneous pain epigastric tenderness muscle rigidity occult blood in the stools and \ray evidence of the crater of the ulcer

On account of the ulcer diathesis the patient should not return to his old habits of living after

healing of the ulcer
Until recently it has been thought that equiva

lent doses of various alkalies can be calculated from the chemical formula. At the authors request this on Freezer and Matthews estimated the hydrogen ion concentrations of various alkalies by adding an excess of alkali to a constant amount of 0.3 per cent hydrochione and Their findings are summarized as follows.

x Magnessum oude and peroude and sodium breachoust produce an allaime solution which reaches a maximal and constant degree of alkalinity within one minute. Magnessum oude has a higher concentration than sodium bicarbonate. Magnessum carbonate attains neutrality in less than one mioute and then becomes alkaline reaching the maximal alkalinity in two munits.

2 Sodium and potassium citrates and tribasic calcium and magnesium phosphates become neutral within one minute. Calcium carbonate attains

Of 121 patients who were followed for a period of three and a half years about 80 per cent were cured and about 10 per cent showed improvement in their condition CHIRLES F DUBORS MD

Walton A J The Results of Surgical Treatment of Gastric and Duodenal Ulcer Brit M J 1928 H 784

Walton reports the results obtained in 172 cases of gastric and duodenal ufcer operated upon in the period from 1920 to 1924 A satisfactory result was obtained in 849 per cent of the total number of cases and in 86 5 per cent of those of pylone wheer By satisfactory result the author means that the patient is now on a fuff diet and able to live a normal life

These results are compared with those obtained by Smith in 214 cases treated medically in the period from 1913 to 1322 Of Smith's male patients 20 per cent were cured is per cent were benefited at per cent were not benefited and 10 per cent died Of Smith's female patients 40 per cent were cured 20 per cent were benefited 25 per cent were not benefited and 15 per cent died. In 5 of 5mith 2 cases carcinoma developed

CHARLES I De Boss M D

Solkov B and Illin S Gastric and Duodenal Ulcer and the End Results of Gastro Enteros tomy in These Diseases (Ulaus ventricule et duo fent und Dauerresultate nach der Gastro enterostomieanlegung bei die en Erkrankungen)

You chie trek 1927 xill 368

In the period from 1914 to 1926 gastro enteros tomy was performed in a 022 cases of tilcer admitted to the Torsok Hospital There were 3 deaths a mortality of 3 per cent. The operation revealed a gastric ulcer in 856 cases a duodenal ulcer in 120 cases and scarring and adhesions in 3 cases Seven hundred and sevents five of the 850 nationts suf fering from gastric ulcer and 100 of those with duodenal ulcer were males. Most of the patients were of middle age

The indications for operation were quite broad and no dietary or other treatment was given before the intervention. In nearly all cases local anasthesia was used and a posterior gastro enterostomy with a short renunal loop nas done The postoperative

complications were as follows

Pneumonia This complication developed in to per cent of the cases and resulted in to deaths More than half of the patients i ere suffering from bronchitis and were not treated for this condition before the operation

2 Embolism Fatal embolism of the pulmonary artery developed in I case eight days after the operation

3 Victous circle There were 5 cases of this com

plication with 2 deaths 4 Acute dilatation of the stomach In the 1 case in which the complication developed the patient recovered

5 Comiting Comiting occurred in 10 per cent of the cases Vomiting of blood occurred in 5 cases with 2 deaths In 3 of the cases with hamorphace second faparotomy was done. In I case the source of the bleeding was found to be a blood vessel which had been perforated with the sature weedle

6 Intestgral hamorrhage Oue patient died from

intestinal hamorrhage seven days after the operation 7 Opening of the abdominal wound This oc curred in 4 cases and was followed in 1 instance by death from peritoritis

8 Heus Four patients died from this condition. o Sepsis There were 8 deaths from sepsis

The end results three years or longer after the operation could be determined in the cases of puly 580 mf 841 patients Four hundred and forty one patients (71 per cent) were completely cared or in a relatevely good condition Twenty one (3 6 per cent) had been benefited but were not able to do much work The condition of 15 (20 per cent) was un changed Seventeen (2 9 per cent) were in very poor condition

In the course of ten years 123 patients had died Three hundred and twenty seven died from causes not related to the gastric disease 36 from unknown Three of there causes and 8 from carcinoma who died suffered from gastric disturbances inter mittently and 34 suffered from such disturbances

constantly

In conclusion the author who seems to be an ardent advocate of gastro enterostomy asks unelber operation is not performed for gastric ulcer too in fr quently and answers himself in the affirmative

Spriggs E The Early Recognition and Treatment nf Cancer of the Stomach Brit M J 191 4 818

This article reviews a series of thirty-eight in its in which a diagnosis of cancer of the stomach was made on the basis of the clinical picture upple mented by roentgenological and chemical studies In some of the cases the presence of the lesion was demonstrated also by operation Spriggs states that before the discovery of the roentgen rays the disk noses of gastric cancer was frequently difficul v the nutrition was impaired or a palpable ture developed and the prognosis was hopeless Today it can be made in the early stages but there is still too long an interval between the onset of the early est symptoms and an adequate chinical erams ation Foo many persons with gastric cancer are treated for

indigestion until the chance for surgical removal

of the lesson has passed

The author's patients were twenty seien men with an average age of sixty three years and eleven nomen with in average age of fifty five years The symptoms were discomfort or pain in the abdorned anoreus nauses loss of neight vomiting flatulence nr distention heartburn and eructation weakness dysphagta or mability to take solids constipation hematemesis diarrhoea and tumor

The amount of distention of the segment the loss of blood the extent of trauma and distress and the circulatory instability are directly proportional to the length of the strangulated segment

3 The type and extent of the vascular oblitera tion in turn has a profound effect on the severity of the lesion. This is due to its influence on the production of the distended necrotic state of the bowel

4 Death from a shock complex can be produced in the absence of bacteria from the involved intestine if the lesion is extensive. There is a striking resemblance between the clinical syndrome of strangu

lation and that of a histamine reaction

5 In short segments and those in which gangrene develops more slowly and with its ever present injury of the mucosa absorption of the toric bowel content and necrotic tissue takes place. Intoxication and shock are both manifest to a less degree

6 Rupture is usually dependent upon the rapidity of the distention and the necrosis of the begment

7 If the case is allowed to progress past the twenty four hour period fluid and chloride loss may be a complicating factor

8 Experimental work with regard to intestinal obstruction should be done under local or spinal anasthesia. These are the preferred types of anasthesia also for surgical treatment of the condition

9 Fluids by mouth should be discontinued Early relief of the obstruction which prevents the many complications of delay is the means by which the mortality rate in this condition is lowered

10 Enterostomy alone is of questionable value when used as the only procedure of intervention Extsuon of necrotic segments of bowel is best accomplished by the gun barrel method. In cases with strangulation all and shock measures should be employed as an adjunct to surgical removal of the involved bowel.

Obstructions of the large bowel are not included in the study of simple occlusion as their symptoms are usually not acute

Orr T G and Haden R L The Toxamia of Intestinal Obstruction J Am M Ass 1928 Xt 1329 McIver M A and Gamble J L Body Fluid

McIver M A and Gamble J L Body Fluid Changes Due to Upper Intestinal Obstruction J 4m M Ass 1928 xc1 1589

Own and Unitors, thate that the chief and characteristic chemical changes in the blood in acute obstruction of the pyloros and upper intestinal tracter an increase in the roop protein mitrogen a decrease in the hop protein mitrogen a decrease in the chiorides and a rise in the carbon desiral combination power of the plasma. They restrict their original hypothesis that the fall in the blood childreds side purity to a combination of the childred in the side partly to the loss of childred in the form of hydochloric distributions of the childred in the form of hydochloric and through vomiting. In the toximist there is a strater loss of childred in the form of bydochloric and through vomiting. In the toximist there is a strater loss of childred than of soldium. The excess soldium combines with earbonic and to form soldium soldium with the properties.

bicarbonate which is measured by the carbon double combining power of the plasma

Obstruction of the upper intestinal tract is asso

crated also with dehydration a marked increase in the blood fibrin the formation of which is greatly accelerated in any condition with tissue injury and an increase in the viscosity of the blood

These changes can be prevented and life prolonged by the administration of water and sodium chloride McIVER and GAMBLE regard the fatal effects of

MCIVE and country to the polary of the polary of the country in sample blockage of the pylorus or upper intestant raced as the result of extremely and the congruent solution and the congruent solution and the interactival body from the companion and the interactival body from the companion makes unnecessary the importances of a torun absorbed from the pastro of some vitally important organic substance. They compared the congruence of some vitally important organic substance. They consider the conference with the circulation as represent ing quite different pathological and physiological migute different pathological and physiological particulars.

Morton J J and Stabins S J The Relation of Bacillus Welchii Antitoxin to the Toxemia of Intestinal Obstruction Experimental Studies drsh Surg 1928 591 860

In experiments on dogs Morton and Stabins found that when intestinal obstruction was produced by dividing the jejunum and turning in the loops to in below the ligament of Treitz the dogs died after from three to ten days from a toxemia manifested by clinical signs and changes in the blood chemistry In another series of experiments they found that after the development of a well marked toxemia recovery sometimes resulted after an operation to relieve the obstruction if bacillus welchis antitorin was administered intravenously but failed to result if other antitoric sera were used When bacillus welchii antitoxin was injected intravenously the appearance of toxic symptoms seemed to be delayed HOHARD A MCKNIGHT M D

Simons E. J. Multiple Diverticula of the Small Intestine Usinerola Med. 1928 vi. 752

Simons reports the case of a man fifty seven years of age who was suddenly seared with epigastic pain while pumping water. The pain was so severe that it compelled him to fie down doubled up for storne time. He complained of nausea but did not vomit Seven hours later the pain was localized in an area 4 in in disameter in the epigastrum and there was board hite ingulity throughout the upper pair of the abdomen. A ruptured gastric ulcer was suspected At operation no ulcer was a palpable or visible in

the stomach or duodenum. The small howel was found to be cymotic and distended with gas. The discoloration extended downward for about 3 ft Na pulsation could be felt in the mesenteric artery A 2 ft portion of the upper mesentery of the small Aluminum

neutrality in two and one half minutes. None of these solutions becomes alkaline 3 Bismuth oxycarbonate only reduces the

silicate and hydrotide which are frequently used for the relief of acidity have even a less effect Estimated by weight magnesium oxide is the

acklity and never becomes neutral

330

most efficient alkali Sodium bicarbonate has only one fourth its value. After neutralizing the acid in the stomach these two drugs stimulate the se cretion of more acid. They are in fact two of the most powerful gastric stimulants known given in excess they produce an alkaline solution in contrast to most alkalies such as calcium carbonate sodium and potassium citrate and tribasic mag nesium phosphate which produce a neutral solution Sodium bicarbonate gives immediate relief of pain in most cases of ulcer but its use is followed by an increase of secretion

Occasionally when large doses of alkalies are given in ulcer treatment a train of toxic symptoms to which the term alkajosis is applied may result The symptoms nearly always appear within seven to fourteen days after the beginning of the alkali treatment Anorexia and depression are noted from the first there is difficulty in the ingestion of milk and after a time headache nauses and vomit ing occur. Usually the symptoms are not severe and rapidly disappear when the alkalies are stopped

Chronic gastritis can be diagnosed only hy means of a fractional test meal which shows excess mucus in all of the fractions. In this condition achlorhydria ta often present and the quantity of free and is always less than normal for the individual because the thick tenacious mucus adheres to the surface of the gastric mucous membrane and blocks the mouths of the eastric glands. Only a small part of the acid gains access to the lumen of the stomach and part of the mucus acts as an alkali uniting with the free acid. An important part of the treatment is eastric layage to wash the stomach free from This is best done in the morning when the stomach is empty. Hydrogen perovide is the best agent for the lavage

Achlornydna is a more common condition than has been generally assumed. The author reports its occurrence in 35 per cent of 762 consecutive patients with abdominal disturbances. If the lesion is due to a true achylia gastrica and not to chronic gastritis the administration of dilute hydrochloric acid will relieve the symptoms. As much as a dr may be given three times a day. When mixed with a pint of water this dose provides a solution of approxi mately the same strength as normal gastric junce CHARLES F DEBN MD

Foster, W C. Intestinal Obstruction The Cor relation of Recent Experimental Studies and Clinical Applications J Am M Ass 1928 xct

Chinically there are two fundamental groups of cases of acute intestinal obstruction which include all types of the classical lesions described. Stated briefly these are (1) cases due to the presence of bands and adhesions which cause acute simple obstruction of the gastro intestinal tract without pomary vascular derangement and (a) cases due to such causes as volvulus incarcerated bernie and intussusception in which there is obstruction of a variable length of intestine as well as interference with the vascular supply of that portion. The condition in the second group the author calls acute intestinal strangulation. He states that this group ing is also a satisfactory pathological classification He considers it the only proper division for error mental investigation. He has produced the two syn-

dromes in animals The complications of acute symple obstruction and strangulation praceed in a somewhat similar direction but vary greatly in degree rapidity of development and seventy. These facts are of paramout smportance in the final outcome

In simple obstruction of some duration the may occur above the point of occlusion a variable degree of distention euchymosis and superficial ulceration depending upon the level of the lesion and whe he fluid food or catharties have been given by mouth The most feared complication is perio ation at the base of the occluding stricture with read wif pentonitis

In acute afrangulation there is rapid progression to gangrene with great distention of the segment. This is soon lollowed by an intrapertoneal transact

tion of toxic fluids and finally perforation If one recognizes the different experiment | con ditions under which the recent investigatio s of simple bon el occlusion have been m de and pronerly interprets the various observations it will be found that most of the observations are in accord. They may be summanzed a follows

s Simple uncomplicated occlus on of the in testinal lumen is compatible with He over a time comparable with that of a normal animal with complete abstinence from food and water Aumala with complete obstruction of the small intestine were kept alive for four weeks without any treatment The blood-chlonde except complete starvation figures remained within normal limits

2 The induction of experimental obstruction with an abnormal mucosa and the allow nee of unbimited fluid by mouth produce excessive fluid and chloride loss with the development of a hypo chloramic state and complicating alkalosis

3 If in addition to the latter state there is an alteration in the mucoca with distention and eccly

mosis there is a superimposed moderate intoxication From this work the following deductions nere made

In high level lessons the course is more rapid and severe because the intestine has a hi her degree of untability and distention is more rapid Because of the anatomical construction of this area necros appears more quickly from secretion and it ernst pressure

medical treatment consisting of dietary measures the administration of belladonna magnesia mineral oil etc there was slight relief of the gas but no gain in weight. In the author's opinion, the symptoms were due largely to the occurrence of inflammation in the duodenal diverticulum

The second case was that of a man of thirty four years who complained of attacks of acute indigestion with gas belching constipation and epigastric pain after meals which was partially relieved hy soda The patient said that he was largely free from symp toms if he was careful to keep his bowels open with laxatives For the past six weeks he had been in bed under treatment for ulcer in another hospital

I hysical examination was essentially negative Reentgenological examination revealed a ptosed stomach with good tone and no evidence of gastric ulcer Fluoroscopic examination and serial roent genograms revealed a pocket in the first portion of the duodenum just beyond the bulb After five

hours the duodenal pocket remained filled

The patient was put to bed treated with lacto dextrin turpentine stupes enemas and beliadonna and restricted to a light diet. Under this treatment there was a marked decrease in the abdominal pain and gas At the end of two weeks the patient had gained 31 lb, his appetite had returned and the abdominal discomfort was negligible. He was then given a full diet. At the present time he is on a liberal diet takes mineral oil and has gained 12 lb JOHN W. NEZEM M.D.

Golden R Non Malignant Tumors of the Duo denum Am J Roenigenol 1928 xx 495

To seventeen cases of non malignant tumors of the duodenum reported in the literature Golden adds two more The tumors included six adenomata composed of mucous cells five adenomata composed of Brunner's glands three myomats one calcified fibro adenoma one tumor composed of fibrous tissue one hamangioma and one lymphangio-endothelioma

Golden states that a non malignant tumor of the duodenum may be the cause of gastric symptoms and hamorrhage In three of the cases reviewed the dignosis was made by roentgen ray examination which showed a filling defect

In the author's cases surgical removal of the

tumors was followed by relief The author is of the opinion that a filling defect

in the duodenal bulb suggesting a non malignant tumor and associated with six hour gastric retention indicates a growth arising in the stomach and pro lap ing into the duodenum whereas a similar filling defect without retention indicates a growth arising in the duodenum itself J IRANK DIGHTY M D

Halpern J The Pathogenesis and Treatment of Peptic Ulcer of the Jejunum (Lur Pathogenese und Behandlung der peptischen Jejunalgesch wuere) Vor chir 4 ch 1918 xix 210

With regard to the rôle of various operative methods in the pathogenesis of peptic ulcers of the jejunum

the author states that anterior gastro enterostomy with Braun's anastomosis has a deservedly bad reputation but the ulcer develops also after other methods even the most extensive gastric resec

Except in the very rare cases of successful medical treatment peptic ulcer of the jejunum must be treated surgically Two procedures are used conservative (restoration of the original normal anatomical relations) and the radical (resection of the ulcer together with the adjoining parts of the stomach) The restoration of the normal anatomical relations (Uspensky s method among others) should be carried out in the cases in which the original gastric or duodenal ulcer is healed and there is no pylone stenosis However conservative methods do not by any means protect against recurrence Resection of a peptic jejunal ulcer offers at times very great technical difficulties and prevents recur rences only when it is completed according to the Billroth II method or by suturing the stump of the stomach into the mobilized vertical segment of the Moreover it makes great demands on the strength of the patient who is not always able to withstand the severe operation. If such a radical operation does not appear possible the surgeon must be content with resection of the peptic ulcer with end to end restoration of the continuity of the intestine and the formation of a new gastro enteros tomy This procedure gave very good results in one of the author's cases The patient is entirely well fourteen years after the operation and although he is sixty seven years of age is able to do heavy farm Mork ALIPOV (Z)

Camp J D Jejunal and Gastrojejunal Ulcer and Their Associated Roentgenological Signs J Am M 1st 1028 xc1 1436

Jejunal and gastrojejunal ulcers simulate in form the usual types of gastric ulcer namely the mucous penetrating and perforated types 1 enetrating ulcers are the most common and are usually found in the suture line or in the jejunum near the anas tomosis

Jejunal ulcers are nearly always located in the efferent loon

The interpretation of the roentgenological signs of gastrojejunal ulcer requires an understanding of the characteristics of a normal gastro enterestomy According to Carman the following conditions de note a normal anastomosis

The meal passes freely through the stoma There is no gastric residue

The duodenum is not dilated The stomach is usually smaller than is usual

without a gastro-enterostomy Gastrie peristalsis is not overactive

The contour in the vicinity of the stoma is not deformed 7 The efferent limb of the jejunum is neither

narrowed nor markedly irregular

8 The stomach is moderately mobile

lv 1651

bowel was white. Along the course of the duodenum and upper jeptumen there were multiple amail daver tieula extending into the tassue between the layers of extended to the cyanosed segment of the small bowel and the abdomen was closed. The patient made a good recovery and has remained in good health for the past eighteen month.

The report of the pathologist as as follows. It is evident that there was a temporary occlusion of the circulation of the 3 ft of small boned that as a partially infarced. It is also clare that there was not a thrombost of either artery or vein. I believe that you were dealing with an extravasion of the point of the mesentery resulting from tupture of a lymphater. Recovery may due to the fact that the excutate was obsorbed and the pressure on the vessels released before actually gargener occurred.

JOHN II NUZEM M D

Neugebauer F Philegmons of the Small Intestine (Duenndarmphilegmone) Zentralli f Chir 1028

To the forty cases of phlegmon of the small intestine reported by Bundschuh and Wolf in 1915 it all of which the uppermost portion of the small intestine was involved and death resulted the author adds a case in which the lowermost portion of the fleum was involved and recovery resulted.

Hearm was revolved and recovery clause. In a patient week, as a very clause. In a patient week, as a very clause when presented abscess was found surrounding the gangemous appendix. The median wall of the abscess was formed by a so-cm portion of the terminal ideum that was blush red and inflittated. A so-cm por tion of the ileum was resected together with the accuma and the seconding colon and the ileum and recopies examination revealed philegemonous inflamma togogies examination revealed philegemonous inflamma togogies can make the control of the second property of t

SIMON (Z)

Henske J A and Best R R Difatation of the Duodenum or Chronic Obstruction of the Duodenum Congenital in Origin 1m J Dis

Child 1928 XXXVI 3324

Dilatation of the diodenum in the adult is now recognized as a clinical entity. The symptoms signs and X-ray appearance are hypical. The condition is usually due to an embryonic band a mal formation adhesions or compression by the mesen tente root or superior mesentenic artery.

The authors report the care of an instant with construction of the duodenum due to misliormation and compression by the root of the mesentery the result of incomplete rotation of the intestine on assementing axis. The high properties of the metaltic or the most offer and the properties of the metaltic or the most offer and the three most offer and the Name of the Name of the diagnosts is difficult.

SAMUEL KARY M D

Pendergrass R C Duodenal Diverticula Am)
Surg 1928 v 49t

Duo lenal discriticula may be defined as pouches or pockets in the duodenal wall which have a free communication with the lumen of the duodenan. The use of the roentgen ray in the study of the gastiomiestimal fract has led to the discovery of many duodenal discriticula which would otherwise have escaped detection.

Diverticula may be classified as true and false and

as congenital and acquired

Disetticula occur most commonly in the second and third portions of the duodenom Occasionally they contain gall stones and sometimes they indergo madagnant change. They may be as small as a small pea or several centimeters in diameter. They are frequently associated with ulcer of the duodenom

The clinical picture is not definite. The paint may complied of pain unrelieved by lood and of side cructations nausea and vomiting. The general straptions may suggest gall bladder disease part dividentiaty pancreatities duodental least or estime pylorospasm. The chief aid in the diagnosm is viry examination.

The treatment will depend is sely upon the severity of the symptoms. The usual treatmen is ligation and existion of the diverticulum with a lagination of the base and suture. When medical treatment is decided upon treatment based o that for diodenal places we may this to be seen continuous.

for duodenal ulcer's most likely to gregood reshit. The author reports two cases of donouted Art. trulum. The first case was that of a woman hirty eight years of age whose chief complaints were man and soreness in the abdomen. Inflammate on die bowels had been manniested for anne years by and moderately severe pain in the obloods stode. The pastern was constituented and took, institute frequently. Her present illness began su days before the admission to the hospital with sor too an the loner part of the abdomen on the right side and is the loner part of the abdomen on the right side and is that store. The pastern is battern had normitted that is a distributed that the substance. The pattern had normitted that is a distributed that the substance. The pattern had normitted that is a distributed that is a

onset
On physical examination the abdomen was found
On physical examination the abdomen was found
moderately distended and tympasitic. A diagnost
of acute appendicitis and enterits was made and
operation was advised but the patient refused any
cal treatment.

Try examination revealed a ploted stomach Yay examination revealed a ploted stomach with good tone and perstains. There was marked pyloropasm with an irritable develoum. A dense clump of sarrow was with an irritable develoum. A dense of the devolution and the stomach and the body of the stomach personal properties of body of devolution. Under the fluoroscope the body of devolution. Under the fluoroscope the pocket was seen to fill from the duodenum. After in hours the stomach was empty but the harmout clump persusted in upper absolute to the right of the modulor. This was still visible after tacity for hours in the same location.

The patient was again advised to submit to operation for the diverticulum but refused to do so Under

perstonitis is not uncommon. The safest procedure is partial colectomy by the Mikulicz method

Devine describes a modification of the Mikulicz operation which makes it practically a one stage procedure. The first step is identical with that of the Mikulicz technique except that the mesentery is ligated The second step is modified in that the open ends of the bonel are closed gradually while the patient is in his bed. The extra abdominal part of the spur is clamped as soon as the blood supply is assured and a few statches are placed to keep the mucous membrane well inverted. A few days later the clamp is removed and applied to the intra abdominal part of the spur

When the spur has been cut through sutures are inserted where necessary and the mucous membrane is dissected away. Some of the sutures cut out but after three or four weeks the extra abdominal part of the intestine is practically closed and has reached the level of the abdominal wall Under local anasthesia this stump is then dropped

beneath the muscles and closed over

The author has employed this technique in eight cases with only one death. The operation is of value especially for old and debilitated patients and in cases in which it is not deemed advisable to take the time necessary for the anastomosis at the ori TOUR W NUZLE M D mary intervention

Dumbadze D Chronic Appendicitis in Children (Zur Frage ueber chronische Appendicitis bei

kindern) Lestn Chir 1027 at 27 In a period of eight months the author operated upon forty children for appendicitis On the basis of these cases he concludes that appendicitis is very common in children but very rare in infants and occurs more frequently in girls than in boys With the first menstruation the pain in the ileocacal region is increased. In the author's opinion there is a familial tendency to develop appendicitis children the condition does not have a typical onset it begins with constipation headache ano resia and nausea or vomiting. Only later is there an acute attack such as occurs in adults and this usually lasts only a few hours. In general there is no reliable symptom for the early diagnosis of appendicatis in children but the occurrence of nausea

and constipation is very suggestive of the condition The author does not approve of roentgen examina tion. He believes that in the cases of children it is

dangerous

In sixteen of the cases reviewed the appendix appeared macroscopically normal but showed micro scopic changes In twenty four cases it presented marked gross changes In twelve cases it contained facal concretions in five oxyuris vermicularis and in others hair bristles nut shells etc. In one case that of a thirteen year-old girl sigmoiditis devel oped and two operations were necessary. In thirty four of the cases the operation was followed by complete relief but in four the pre-operative dis turbances persisted

In the author's opinion appendicitis in children should be treated surgically and the operation should be performed early when possible

Kocit (Z)

Fellows H H What Is a Chronic Appendix? Med Clin N 1m 1028 x11 611

Chronic appendicitis is characterized by atrophy of the glands and lymphoid tissue with a subsequent replacement fibrosis It frequently follows an acute inflammatory reaction. The fibrotic changes may or may not cause obstruction or obliteration of the lumen of the appendix When obstruction or obliteration occurs a cystic dilatation may develop Freal concretions foreign hodies and congenital and acquired bands may cause chronic disease of the appendix

Chronic appendicitis is most common in young adults. As a rule it causes a dull pain and definite tenderness in the right lower quadrant of the abdomen The symptoms do not follow an acute attack directly but develop gradually. They may be persistent or intermittent. In some cases they may be interrupted by an occasional acute exacerhation of varying intensity

In from 65 to 70 per cent of the cases the roentgen ray is of aid in the diagnosis. The two most reliable ray findings are retention of harrum in the angen dix and evidence of tenderness to pressure noted on fluoroscopic examination. An appendix filled with barrum after forty eight hours when the remainder of the colon is empty is of more significance than an appendix filled with barium after seventy two hours when the transverse and descending colon still con tain a part of the meal

HOWARD A MCKNIGHT VI D

Bychovsky O The Question of Rectal Carcinoma (Zur Rectumcarcinomafrage) Veitn Chir 1027 n n

The author has operated upon 123 cases of malig nant lesions of the rectum In 87 a radical opera tion of the sacral type was done but in 35 the condition was so far advanced that only a colostomy was possible

Bychovsky has found carcinoma in 8 5 per cent of all operations on the rectum It is the third most frequent carcinoma cancer of the breast being the most frequent and cancer of the stomach next most frequent. In only 4 of the 123 cases reviewed was a sarcoma discovered The author noted that cancer of the recrum was more frequent and more malignant in the second half of the war after 1916 The most common type was the adenocarcinoma. The poste rior wall of the rectum was involved more frequently than the anterior wall. Circular involvement was least common The carcinoma was situated most frequently in the ampulla next most frequently in the rectum and least frequently in the anus Be cause of their tendency to undergo malignant change papillomata and polyps in adults should be treated as cancer Metastases of cancer of the rec

9 The stomach is not deformed and does not show a tendency toward spasticity or toward hour glass formation

The roeatgenological signs of gastrospunal uterare of two types the chrect and the indirect. The direct signs which indicate the lesson itself, are an uter niche or carter deformity about the stoma partial or complete occlusion of the stoma irregularity of the perjunium and gestrochie fields. The starty of the perjunium and gestrochie fields. The distance of the stomach section, prepresentables distance of the stomach section, proper personals in the stomach section of the stomach section, prodiction of the stomach and spatialty of the spinium. These are not positive indications of a leason but collectively or in combination they may

succest disease The author discusses each of these signs at some length. Special stress is placed on the niche which the author believes is the most important anding in these conditions. In support of this view he cites ten consecutive positive cases in which a niche or crater was disclosed eight times An accurate diagnosis requires careful palpation under the fluorescope with the patient in the upright position Examinations should be made with small quantities of barrum usually one or two swallows are sufficient Stomal and jejunal craters invariably fill with the first swallow of barrum and the niche is best seen at this time. It will stand out as a remaining shadow of increased density in the stoma or as a projection about 1 cm in diameter from the contour of the jejunum. In the latter on a 10 is usually in the efferent loop and rarely more than 5 cm from the anastomosis The shadow must be differentiated from burium fl.cks retained by gastric ruge or terunal folds The latter can be effaced or changed by pressure or manipulation. Niche shadows will remain unchanged or will become more pronounced under pressure. If they empty they will re appear Questionable shadows should be confirmed by a second examination ADOLER HARTUNG M D

Porzelt W Perforated Peptic Ulcer of the Jejunum Following Perforation of an Ulcer of the Duodenum (Das perforate Ulcus pepticum jejuni im Gefolge des Zwoellingerdamgeschwaers durchbruchs) Zentralbi f Lbr. 1923 by 1740

A man thirty one years old who was treated hy gastro-enterostomy with a Braun anastomosis for perforated ulcer of the duodenum came to operation six morths later for a peptic ulcer that had per forated into the peritoneal cavity.

Datal to the gastro-enterostomy a perforation the size of a pea was found in the loop of journam There was no trace of the old ulcer in the dwedenum Resection was done by the Knorelinam Roux method with a V anastomosis. Two thirds of the stomastic content of the stomasti

The resected specimen showed an ulcer the size of a plenning with a pea size I perforation on the d. til side of the intact anastomosis

The operation was followed by a smooth con valescence but the patient old not obly the instructions given him regarding his det and developed choical and roentgen signs of a new peptic uler at the site of the gastro-intestinal anastomosis

On the basis of this case and similar cases reported in the literature, the author advises against gastroenterostomy in cases of freely perforating duoienal ulcer He believes that if the patient can be nour ished parenterally and rectally for a sufficiently long period of time the best treatment is suturing of the perforation. Under such currumstances the Epchberg Jejunostomy also is contra indicated. If the general condition and the length of time that has elapsed since the perforation do not allow primary reserbes secondary resection is the relatively surest pre ventive of peptic ulcer of the jejunum. From the reports of Burgfeld and Harlinger it seems to the author doubtful whether the Billroth I or II method should be used. The fact that disturbances suggest ing ulcer may recur as in the author's case even after extensive resection with a change in the acid. leads to the conclusion that the alter treatment should he left to the internist Lozuz (Z)

Cancelmo J J Carcinoma of the Jejunum Ass Sat rg 8 livraym 941

Less than t per cent of caramomats of the gails metamal tract occur in the small intestine. Likest carcinoma of the small intestine as obstructive the physical florings are few Because of the fluidir of the contents of the small intestine the mass solvent palpable and unless the keson is discribed hood in soil found in the stool. Lent the rorel grongstam schlorm indicates that the lesson is a car

The author reports the case of a noman stiture years of age who gave a shartor of indigestion of eight years duration. During the last fou year this con lition had become more sever and for eight months there had been slowly increasing emergment of the abdomen. The patient stated that he appetite was poor and that about an hour after each ment she had cramp like pains in the center of the abdomen. She had always been costive. Vomitte orcurred almost daily.

Operation revealed a large man involvin about fit of the jejunum. This was found to be an ado or carcinoma primity in the mutoas of the jejunum which had invaded the muscular and serous coats.

Derine H B Colon Surgery in the Debilitated

I College Sweg Ustr last a 1938-1938
Surgery of the colon 1 associated with danger because of the fact that the farg intestine has a post-blood supply and highly septic contents the present of a carcinoma or chronic obstruction lowers the patient's resistance wound healing is slow and

Petzetakis Amoebic Cholecystitls The Presence of Amoebic in the Pus of Purulent Calculous Cholecystitls (De la réalité de la cholécystite ambienne Présence d'ambes dans le pus d'une cholécystite calculeuse purulente) Bull et mém ha mét d'ubé de l'ur 1018 kly 120 l

The author has repeatedly maintained that amobic dysentery is only the best known of the many manifestations of amobic infection and that there is an amobicmia that may result among other manifestations in amobic choleystitus

In this article he reports the case of a woman of suff five gars who entered the hospital with signs of supportative tholers stitls. The gall bladder was enlarged and adherent. Cholers stotomy was per formed and a large stone was found in the common duct. Microscopic examination of the fluid should make amorbic and exist. The gall bladder was drained. After six impections of 0.0 st gm called a central children in the fiver subsided and the patient was discharged cured.

In this case there was no history of dysentery the cholecystize did not result from an abocess of theliver because the liver was found normal and the symptoms from the beganning were those of chole cystins. Such a cholecystitis may be brought about by blood infection in the course of an ameribe in festions that has not caused intestinal disease. By according the stream of the disease of the course of the

If cholecystitis caused by amorbor is diagnosed early the prospects for cure are better than in bacterial cholecystitis. If a cure is not obtained early the gall bladder remains a reservoir of amorbor from which dysentery may develop

stone that was found in the common duct

AUDREY G MORGAN M D

Ilaberer II Surgery of the Ballary Tract (Zur Gallenwegechirurgie) 4rch f Verdanungs Krankh 1928 xlin 155

In 1035 the author reported that in 56 cases in such the operated for gall stones there was no instance of fatal personate developing ensirely supported by the under conditions that could not have been explained either by the findings at operation or by the nature or technique of the operative procedure. In 134 cases operated upon in the last two vears there were a cases of personates. In lost two vears there were a cases of personates. In lost two tasts there were a case of personates in lost of these cases following a simple entirely death of the wound was therefore drained. In a stich abscess around a catigut suture that had been used in soluting the bed of the gall bladder.

Observations at operation in 2 other cases gave the author the opportunity to explain such puzzling instances of peritonitis. In the first case in which

there was an empyema great care was taken in the exterpation of the organ not to injure the peritoneal covering of the undersurface of the liver but just as Haberer was about to suture the bed of the liver he noticed drops of pus coming in large numbers from the peritoneal covering. He is not inclined to the belief that this was a case of suppurative inflam mation of the lymph vessels since we know that in general lymph vessels are such delicate structures that even when suppurative infection is present and the vessel is cut across it is hardly ever possible to see mis with the naked eve. He believes rather that this was a case of numerous aberrant ducts into which the pus from the empyema entered directly such ducts usually being connected on one side with the gall bladder passing obliquely through its wall and on the other side with the liver

Haberer reports a case in which a second laprotom was necessary twent four bours after the first operation because after closure of the abdomen without drainage there had been an excape of bile beneath the liver. The existic duct ligature was in good condition but a continuous occurage of bile occurred from the bed of the liver, which was covered with nectionsum.

In a second case reported there was an aberrant

duct of remarkably large size. The patient was a forty seven year old woman who following frequent severe februle attacks decided to submit to operation because the last attack persisted after a week. In the course of a retrograde cholecystectomy exposure of the neck of the gall bladder met with difficulties on account of many areas of fresh in flammation in the old indurated adhesions separating the gall bladder from its bed the surgeon suddenly opened up a duct lying beside the gall bladder and a large amount of bile escaped immediately examined the deep bile ducts, thinking that be might have injured the hepatic duct but the deen bile ducts were found intact. The duct proved to be as was demonstrated by the opened gall bladder specimen a particularly large aberrant duct A large quantity of bile was evacuated through the drain the quantity became even greater after the removal of the strip of gauze on the sixth day Doubtless the cystic duct ligature had cut through in the inflamed tissue

The patient made a good recovery and the fistual classed but for days after the operation poin loss of appetite and an increasing interius began los of appetite and an increasing interius began at a second laparotomy it was found that the common bile duct was compressed by about § liter of bile that shad collected between the adhesions of the stomach the large intestine and the liver. The bile ducts were dissected from the adhesions with bell ducts were dissected from the adhesions with bell ducts were dissected from the adhesions with the ducts were dissected from the adhesions with a sound to be open. It is a summer to the contract of the patients around to the patients of th

tum are spread by the lymph and blood routes. They involve first the fiver and then the bones. The course of rectal cancer is much more malpanant and more rapid in young than in old patients.

The author advises diagnostic biopsy when rectal carcinoma is suspected but emphysizes that this

should be done with the cautery instead of the scalpel
In general the prognosis of cancer of the rectum
is better than that of cancers in other organs such as
the stomach and press. If not operated in the second

is better than that of cancers in other organs such as the stomach and breast. If not operated upon rectal cancer usually causes death within three years. Of the authors 87 patients who were ambiented

to radical operation 'z' (174 per cent) died following the operation whereas of the 35 subjected to colostomy 4 (11 per cent) died as the result of the operation Of the 46 patients who could be traced after the radical operation 17 were alive after there years 14 were alive after five years and 7 were alive after from ten to thesely four years

The author prefers spinal anxishesia for the radical operation. The procedure of chorce he believes is the sacral method. If this is not adequate he uses the combined abdominodorsal approach and in cases in which the carcinoma is related very high the abdominenseria method structed very high the abdominenseria method is possible the patient is greatly benefited and gains possible the patient is greatly benefited and gains weight.

LIVER GALL BLADDER PANCREAS AND SPLEEN

Wangensteen O II The Ilæmorrhagic Diathesis of Obstructive Jaundice and its Treatment Ann Surg 1928 lexxviii 845

One of the most important causes of death following surgical intervention for the relief of blishing obstruction is harmorphage. The retention of but no organizing ner is is probably not responsible for the tendency to bleed and the alteration in the state of the tendency to beed and the alteration in the state of the tendency of the state of the injury of fiver tissues and the diminution of liver luntion consequent upon the billiary obstruction.

The retention of bile pigments in obstructive journalier is thought to cause a functional deferency in calcium and to render the blood calcium less available for congulation of the blood. An actual quantitative deficiency of blood calcium bowever does not occur. Calcium is a good remedy to reduce the prolonged extravascular clotting tume of the blood in bilary obstruction.

The treatment most urgently indicated to prevent hamosthage in obstructive jaundice is early reheful the biliary obstruction. Morsis H. Kain, M.D.

Bockus H L and Gershon Cohen J Simul taneous Non Surgical Drainage of the Galf Bladder and Intravenous Chotecyatography Ark Int Med 1928 kin 235

The authors report their results in nine cases in which non surgical biliary drainage was performed

annulaneously with cholect-tographe studes. The stimulants used to extensite the color state of the gall hladder were 33 per cent man of horse per cent per cent magnetism subplant and oldered A market reduction in the size of the gall bladder as found an every case. The patients are prepared for the study by the use of fetra todophenolthalen. Three and five tenth sgrams of the de dissolved in 100 c cm. of normal salls oblition were given inture or c m. of normal salls oblition were given inture or c m. of normal salls oblition were given inture c cm. of normal salls oblition were given inture and five tenth signature of the size of the various of cream and mich had been uper a size of the size of the various stimulants of made at 6 yo the following morning and also sall sequent to the use of the various stimulants.

Of the three stimulants employed clive of as at the most effective but the gall bladder was obtempted completely in any case. According to the sage and density of the shadow emplying of the sage and density of the shadow emplying of the than one hall occurred in seven cases. The administration of a far meal by month brought should further evacuation of the contents of the gall bladder last the worker cases no further change occurred.

The authors conclude that medical bihary drain age properly conducted will evacuate the fall blad der as well as a fat meal in 30 per cent of case and that it will cause an appreciable drainage of bit from a normal gall bladder in practically every tase

MANUEL E LICHTENSTEIN M.D.

Reinblatt II M. The Infrequency of Primary Infection in Gall Bladder Disease Vew England J. M. 1928 czeix 1073

Four hundred gall bladders removed at operation were studied pathologically. In o cates the condition found on gross examination was acute empty and a studied of the condition found on gross examination was acute empty and a studied of the condition of the cond

1 Histopathological study of gall bladders re moved at operation indicates that the importance of infection is the causation of cholecystits has been greatly over-estimated while the importance of me tabolic and mechanical factors has not received due consideration.

2 Primary infectious lesions of the gall bladder are exceedingly rare and local infection arising from

this organ has not been proved
3 Since cholecystus seldom gives rise to pen
tonitis the emergency treatment of gall bladder
disea e can in no sense be compared with tha f c

appendicits

4 The treatment of cholecystitis is primarily
medical and becomes surgical only when complications of a mechanical nature develop

Fini C Robitsher M D

lesions are classified as (1) absence of the left half of the diaphragm, (2) the thoracic stomach (3) eventration of the diaphragm (4) congenital hernia

and (s) acquired hermia
Absence of the left half of the disphragm has been
recognized at autopsy in surgical operations and
recognized at autopsy in surgical operations and
recognized properation in surgical intervention is contemplated
importance if surgical intervention is contemplated to
ascine too much importance to trauma in making a
diagnosis of diaphragmatic hermia since in cases of
congenital lessons there is often a history of trauma
without any cludogical relationship to the condition When absence of the left half of the disphragma
has been determined renetingengraphically it is
desurable to ascertain the contents of the left half
of the disch tin the same manner as this knowledge

my be of value if lesions develop in those organs. In cases of thoracts estimated of which two have been dispassed by the author the disphragm is of normal form and instact on both sides but the stom sch is entirely within the chest cavity. The cross of the stomach passes through the companying the disphragm is very short and the duodenum or in some players is very short and the duodenum or in some the companying the disphragment of the stomach passes through the companying the disphragment of the companying th

Eventration of the diaphragm usually occurs on the left side but at times may be found on the right

side and occasionally on both sides. The diaphragm may he as high as the second costal cartilage but on careful roenigen examination especially on lateral exposures its complete outline can be made out Eventration is usually due to defective musculature

Eventration is usually due to defective musculature In cases of congenital herma a defect in the disphragm present at birth allows the abdominal contents to pass into the chest cavity, with or with out the presence of a sac Such defects in the disphragm usually occur on the left side but may be present on the right side in which case the liver may block, the opening sufficiently to prevent the contents of the abdomen from passing into the chest cavity. Repeated examinations may rever iprits of the stomach or colon sometimes above the dia phragm and sometimes below it thus serving to differentiate the condition from absence of the left half of the diaphragm.

Acquired herma may occur through the exspita geal ordice as the result of gradual relaxation of this opening. The condition may be diagnosed by careful rentgenoscopic and roentgenoscopic and particularly with the patient in the horizontal or sighth, inverted position. The cardiac end of the stomach or rarely the splenic flewire of the colon may be observed in the chet cavity alongside the exophagus. Trauma may also be a cause of acquired herma and can be dangosed roentgenograph ically by observing abdominal organs above the diaphragm.

general condition became worse. Later the stools again became achoic and the bife fistula re opened. Another train was then inserted and as a precautionary measure was left in. The patient lost weight again became jaundiced and finally developed a duodenai fistula.

open a quoteens instead.

At a third operations the perspheral segment of At a than operation is mound as a transformed unit on an industried mass. With extreme chief was described free from the porta of the liner. A large quantity of bile was it once discharged. The industried at the same of the common bird duct was to the common bird duct over to the duodratum. Hence, it was necessary to mobilize the duodratum. Hence it was necessary to mobilize the duodratum. Hence it was necessary to mobilize the duodratum factor of the duodratum of the duodratum factor of the duodratum of the duodratum factor o

marned good for a month and a half The author states that this was the second case in which he was obliged to operate on account of fistula of the stump of the cystic duct and in both cases the operation was rendered difficult by indura tions He attributes the difficulty chiefly to the re peated attacks over a period of years which had led to severe inflammatory changes and also to the fact that in the end it was impossible to delay operation for the last inflammatory attack to clear up. Prevention of such complications lies in earlier opera tion. The author's chief reason for reporting these cases however was to show the important tole that may be played by aberrant ducts believes that they may explain many hitherto puzzling cases of peritonitis following operations on the gall bladder SCRUENEMANN (Z)

MISCELLANEOUS

Cohn 1 Personal Experiences in Abdominal Surgical Emergencies Vortho it Med 1928 23 11 1505

Cohn discusses spontaneous traumatic opera tive and postoperative abdominal emergencies. The spontaneous emergencies include acute appendicatis perforating gastric and duodenal ulcers gastric hamorrhage due to intrinsic and extrinsic causes subcutaneous hamorrhages hamorrhages of the mucous membranes particularly those associated with splenomegaly and acute gangrenous chole cystitis. The traumatic emergencies discussed are traumatic ruptures of solid viscers particularly the spleen and hamorrhage. The operative emergencies considered are conditions assing from unintentional trauma such as injury to the common duct during a cholecystectomy injury of the intestines during an abdominal incision hamorrhage during laparotomies and sliding hernize The postoperative emergencies discussed are intestinal obstruction alkalosis harm orrhage and rupture of the abdominal wall

In cases of appendicitis early diagnosis and early operation will prevent many of the unfavorable sequele In cases of gall bladder disease emerceacy operations are comparatively rate. In acute chole cystatis if there is evidence pointing to perforation empyema or gangrene operation is an emergency procedure Under such conditions cholecystectomy may prove disastrous Therefore cholecystostom should be done and cholecystectomy postponed until it can be performed with less danger Perlora tion of gastric and duodenal ulcers requires immediate operative intervention. The possibility of per foration of the stomach should be considered when in cases with a history of indirection sudden arute diffuse pain is followed by generalized rigidity with out nauses or vomiting Gastric hamorrhage may be associated with orsophageal varicosities and vari cosities in the atomach or with diffuse hamoribige from the stomach. In the hamorrhage of purpura hamourhagies transfusion followed later by plen ectoms will give the best results

Except in the case of the bladder, which may be ruptured in fractures of the pelvis rupture of a hollow viscous as uncommon. Rupture of a solid viscous such as the liver or spleen is relatively in common. In squares of this type pain is not a prominent manifestation. There is no evidence are two defaults and the period of the pain is not a considerable to the period of the peri

One of the most interesting of all surgical emeracies in this which occurs in the course of an open stom for an apparently simple indirect ingunial hermatical most interest in the interest i

Hamorrhage during the course of a laparatour may render the operation very difficult. A good or posure is necessary to discover the bleeding points. The abdomen should not be closed until all bleeding has been controlled.

Postoperative emergencies may be drawled side three groups (1) those that develop immediately after an operation such as shock and harmorthage (2) those that develop after from teach tops to forety-ea, bit hours such as acute towarm following collectivatemy and (3) those that develop still later such as alkalous sites forcal fields and even tration

LeWald L T The Roentgenological D agnosts of Diaphragmatic Hernia Am J Ro 190001 1925 Et 413

The author discusses not only the relatively inferquent acquired traumatic herma of the disphragm but also congenital mallorimations which its some respects simulate disphragmatic herma. The diferentiation between these conditions may be of methodelegal as well as surgical importance. The hamorthage occurred A third laparotomy revealed the source of the bleeding to be a ruptured follicle of the left ovary The adness were removed but the patient died from exhaustion

Histological examination of the ovaries showed a susue rich in cells with numerous corpora fibrosa and isolated small cysts a corpus luteum hæmor rhagica in the right ovary and a corpus luteum in the left ovary. Neither the tubes nor the uterme

mucosa showed any changes of pregnancy

The author concludes that in every case of appendicts attention should be paid to the uterine adness and theincision so made that if necessary an operation on the adness may be performed after the operation on the appendix

MINDEL (Z)

EXTERNAL GENITALIA

Norris C C and kimhrough R A Jr Relaxa tion of the Anterior Vaginal Wall Am J Obst & Gynec 1928 xv1 675

Relaxation of the anterior vaginal wall is of fre question occurrence. Cystocele is much more common in atout than in thin women and the intra abdominal pressure is probably much greater in the lormer than in the latter

One of the most frequent and annoying symptoms of relaxation of the anterior vaginal wall is partial incontinence especially upon straining or coughing Incontinence is rarely if ever present unless the sphineter is injured. Incontinence may be marked when the vesical lesson is relatively insignificant

The reverse also may be true.

Act infrequently the vaganal mucosa covering the postener portion of the urethra becomes hypertrophed. The hypertrophy may occur alone but is a common accompaniment of cystocile. It bears no relationship to the integrity of the sphinter Fin office committee and the contraction of the integrity of the sphinter Fin office cystocile with an opaque liquid are direct aids in the demonstration of the lesions. The 'Arg may tex-all relaxation of the sphinter which cannot be detected by the ordinary claimed merchanic mental methods.

To cure incontinence due to relaxation of the spinioter the relaxation must be recognized and the antenor colporrhaphy modified accordingly. Post operative \(^1\) ray examinations are of great practical

value in revealing the degree of restoration obtained. No not type of operation is applicable to all each Care in the selection and the performance of the operation is of the utmost importance. Also the knowstass is essential. A small harmatocele insignation to the lamostass is essential. A small harmatocele insignation to lamostass is the selection of the selection of a symptomatic cure as may also carelessness in the placing of no or two of the important satures.

RUSHMORE in discussing this report stated that one way of dealing with relaxation of the sphnocter is to take up the slack by reefing sometimes with a legar catheter in the urethra

RAWLS stated that a cystocele cannot cause an injury to the vesical sphincter by dragging or pulling

as the sphincter is anterior to the ureteral ridge and the tirgone the most fixed points of the bladder. The vesical injury and the injury resulting in urethrocele occur at the same time as the injury causing the ejstocele. Incontinence of urine cannot be due to urethrocele with a minor injury to the vesical sphincter. A funnel shaped urethra in a cystogram does not always indicate a urethrocele or that an operative procedure other than a cystocele operation is undicated.

MISCELLANEOUS

Zondek B and Aschhelm S The Hormone of the Anterior Lobe of the Pituitary Gland 1st Preparation Chemical Properties and Bio logical Effects (Das Hormon des Hypophysenvor derlappens Dar telling chemsthe Expen chalten biologische Wirkungen) Ahn Wehnschr 1928 vil 8st

The authors give a detailed report of their results with the hormone of the anterior lobe of the pittul tary prepared by themselves. These supplement the facts established in their earlier implantation experiments which have been confirmed by other

investigators
The inhibitory effect upon ovulation resulting from the continued injection of the expressed juice of the pitutiary which was reported by Long and Evans is ascribed by the authors to overdosage With regard to the luttenization and the formation of attest follicles the findings of Long and Evans are in agreement with those made by the authors. The test object used by Zondek and Aschheim for the hormone of the antenio lobe of the pitutiary gland is the ovary and secondarily the vagina of the infanile mouse.

The signs of extrus in the infantle vagins frequently run such a rapid course that they may be overlooked if smears are not taken very frequently. The effects must begin one bundred hours after the beginning of the injections. Macroscopically the appearance of bleeding points in the follicles and microscopically the finding of attentio follicles in sides monaining of the follicles will be characteristic.

The hormone of the anterior lobe of the pituitary can he derived from the unne of pregnant women from which it is obtained with the ovarian hormone In the first two months of pregnancy the urine con tains from 3 000 to 5 000 units of the pituitary to gether with 300 to 600 units of the ovarian hormone (a unit of the hormone of the anterior pituitary lobe being the amount which has the power when divided into six portions to produce the characteristic reaction in an infantile white mouse weighing from 6 to 8 gm after one hundred hours) In the third to seventh months of pregnancy from 3 000 to 6 000 units of the anterior pituitary hormone) in addition to from 5 000 to 7 000 units of ovarian hormone are excreted and in the seventh to tenth months from 2 000 to 3 000 units of pituitary hormone and from 6 000 to 10 000 units of ovarian hormone are ex creted Hence the most lavorable time to obtain

GYNECOLOGY

UTERUS

Hinselmann II The Diagnostic Value of Colpos copy (Die Leistungsfachigkeit der Kolposcopie) Kli i lich siehr 1918 vii 1188

The colposcope devised by Hinselmann may be used for

The early clinical diagnosis of carcinoms of the portio In more than forty cases Ilinselmann ob served white areas of mucous membrane on the portio in which microscopic examination showed a typical epithelium with not rarely an infiltrating growth that was not connected with the glands Where such an infiltrating growth with otherwise atypical epithelium was not demonstrable in these cases a corcinoma in a still earlier stage was present The colposcope permits recognition of such vers minute (fractional part of a millimeter) carcinomata at the beginning of their invasion. It reveals also atypical and essentially changed areas of epithelium in which as yet no cancerous invision is demon strable It aids in the discovery of abundant material for histological examination in the early stages of cancer

2 Framination of the vaginal mucous membrane in cases of leucorrhoxa. Colpitic changes are frequently to be found when nothing abnormal a visible to the naked eve.

The the naked eye

3. Observation of contractions of the uterus es

pecially under the influence of drugs
4 The study of the formation and expulsion of

secretions of individual cervical glands
5 Examination of cervical vaginal and vestibular mucous membrane in local diseases

Hinselmann has tried out colposcopy for three years and has found it of great value especially in the early diagnosis of carcinoma of the portio

Masson J C and Simon II E Fistula of the

Oteras two Jones Copies 1983 X 1983.

Fistula of the uterus is relatively infrequent as a postoperative complication. The diagnoses can be made almost entirely from the existence of a post observed the control of the control of the post of the formation of factula of the uterus are operations performed in the presence of acute pelice inflammation, issue and the uniterus are operations performed in the most of the formation of factula of the uterus are operations performed in the removal of the inflammation, issue and the uniterus and the uniterus and the uniterus and the uniterus of the procedure of the procedure is attended by a low mortality rate and good results.

Criscitiello M Jr Hyperplasia of the Endo metrium with a Report of Cases Vew E gl nd J M 19 8 excix 1034

Hyperplasia of the endometrium is described and nine cases are reported

The author states that hyperplasa does not represent endometral changes in normal mention ton and has nothing to do with so called hyper plastic hypertrophic or polyoped endometrins it is due to an ovarian disturbance rather than to infection and hence is not an inflammator reaction. The treatment must be selected with this fact is mind. The importance of conservation in the irreduced in the contraction of th

Gelpi M J A Review of Various Methods of Treatment of Carctnoma of the Cerk At tendant Primary Mortality and Ft e Year Cures R diology 1918 71 403

The author states that radium irredution as expecially suitable for the treatment of excitionars of the cervix and that surgery should be limited to the early stages of the condition A cure is obtained by radium irradiation in 45 per cent of the essets and radical operation in 30 5 per cent but there is a brid difference in the primary mortality of the two procedures.

In discussing the prevention of carcinoma of the cervix Gelpi emphasizes the importance of correcting facerations endocervicitis metaplasia and erosions

ROLAND S CAN MD

ADNEXAL AND PERFUTERINE CONDITIONS

Orth O Intra Abdominal Bilaterat Ovarian Hæmorrhages (intra abdominelle beiderseitige Ovariathiutungen) Zentrathi f Chi. 1928 lv

To the small number of cases of ovanan hamor rhage following appendectomy that have best reported in the hierature Orth adds a case of his one. The patient was a woman twenty five jear of age with an empyering of the appendix shirl at the time of operation was just about to rught non there occurred a uterine harmonic period was believed to be meastrusted by the was believed to be meastrusted and rapidly and the following the major of the control of the

After the second Iaparotomy the patient's condition improved but twenty four hours later another markable, in view of the extensive pathological changes and the consequent radical surgery that is necessary in the cases of colored women. It indicates quite conclusively that the colored woman has a greater resistance to trauma and infection than the white woman

A greater frequency of chancroid and conditional is to be expected among colored women \aginitis on the other hand is decidedly less frequent than among the whites

From a third to a half of all colored women over fifty years of age have fibroids Submucous fibroids adenomyomata and endometriomata are less fre quent than the other varieties. In from 80 to 90 per cent of the cases the tumor can be palpated abdominally without difficulty More striking than the size and multiplicity of the growths however is the uniformity with which colored women seem to ignore the existence of the tumors. The enormous tumors sometimes have veins as large as snakes coursing over their surface Rupture of such veins is a rare complication but the author bas seen two cases in which it occurred. Total hysterectomy is not an infrequent operation because infection of the cervix is common

Caranoma of the uterus is rather more frequent in colored women than in white women Operation is performed in certainly not more than a per cent and in an appalling number of cases only pathative treatment is possible. The colored patients exhibit an unusually high incidence of ugly complications

especially fistula: Carcinoma of the breast is likewise more frequent among colored women though the mortality which the author believes is mainly surgical is consider

ably less

Obstetrical injuries with the single exception of fistula are decidedly less frequent in colored women than in white women as would be expected in a race which bears its children largely without mechanical aid Since salpingitis is an accepted eause of ectopic pregnancy one would expect the latter condition to be considerably more frequent in colored women whereas it is slightly less frequent

The incidence of abortion and premature labor in colored women is considerably higher than the hospital records indicate The incidence of strillhirth is 3 per cent higher than among whrte women this fact being due to syphilis The mortality among premature habies is also higher among negroes

Eclampsia is 15 per cent more frequent in colored women and its mortality rate is it per cent higher than in white women Hyperemesis is less frequent but the mortality rate is only 2 5 per cent less than among white women

Why placenta pravia should be more frequent among white women than among colored women it is impossible to say though the markedly higher mortality in colored women-the difference is 22 2 per cent-is easily explained by the fact that the negro is more likely to ignore the initial harmorrhage particularly if it is not severe and therefore is more

likely to be infected prior to admission to the

Chronic and acute appendicitis are both several times more frequent in the white race but their mortality in the colored race is considerably higher In the colored race gall bladder disease is less fre queet and gall stones are decidedly rare Nephro litheasis is also infrequent among negroes

E L CORNELL M D

Ward G G The Treatment of Pelvic Infections Pennsyl ania M J 1928 xxxii 63

Ward states that in 15 per cent of cases of acute infection of the pelvic organs due to gonorrhæa or following labor or abortion recovery will result with out treatment. The gonococcus is responsible for about 75 per cent of pelvic infections and in 70 per cent of such cases the infection in the tubes will ultimately become sterile. The operative mortality is much higher in cases in which operation is per formed while the tubal infection is still active than in those in which it is performed after the infection has subsided. The greater the length of time devoted to pre-operative convalescence the greater the chance of performing a conservative and recon structive operation rather than a radical and

destructive operation Parametritie exudate following labor or abortion and perimetritis will often resolve without abscess formation if let alone. If pus forms it may be

absorbed-frequently with preservation of function of the pelvic organs-if the quantity is small. The formation of evudates is often due to too ready resort to curettage or other intra uterine manipula tions at the onset of a uterine infection. Many cases of pelvic infection are operated upon unnecessarily or too early the result being that the infection is increased or disseminated ROLAND S CROS M D

Clute Il M Cystocele at Middle Age Treated by the Interposition Operation New England J Hed 1918 excix 994

The author reports sraty three cases of cystocele and uterine prolapse treated by the Watkins inter position operation with satisfactory results in no 56 per cent of the patients traced. In two cases the results were unsatisfactory. In another instance the pathological report on the uterine scrapings five days after the operation revealed carcinoma of the fundus and a complete abdominal hysterectomy was performed after vaginal freeing of the uterus There were two deaths a mortality of 3 17 per cent One death was due to pulmonary embolism which developed on the fifteenth day after the operation while the patient was on her way home from the hospital The other occurred on the sixth day after the operation from peritoritis probably originating m the endometrum which was exposed by partial hysterectomy preceding the interposition operation

The chief complaint in the two cases of unsatis factory results and ra the eighteen cases with satis factory hut imperfect results was persistence of the the hormone from the urine is during the first eight neeks of pregnancy but at any time it is easier to isolate the hormone from the urine than from the pituitary itself or from the placenta

The urine acidified slightly with acetic acid is concentrated to about half its volume in ricke at a temperature of 40 degrees C and then filtered with ether for the removal of the ovarian hormone which is more soluble in ether than the pituitary hormone The portion of the material which is not dissolved in ether is then subjected to dialysis as the hormone dialyzes more rapidly than the other manary con statuents As soon as the urmary proment no longer dialyzes the dialysis is stopped the dialyzed fluid is again evaporated to drs ness in racno at a low tem perature the residue is further cleansed by repeated shaking out with ether and the remaining sellouish white powder is used in solution

In contrast to the ovarian hormone the hormone of the antener lobe of the pituitary gland is not thermostable being injured even by a temperature of 60 degrees. It is markedly sensitive to strong acids and alkalies and is insoluble in lipoid soluble For the purpose of standardization at is nell always to use from six to eight animals at the If the effectiveness of the pituitary same time hormone is not evi lenced macroscopically by bleed ing points and corpora lutea the ovaries must be subsected to sensi section for possible evidence of at

retic follicles etc Un to the present time the authors have been unable by injection of the hormone to achieve rupture of the ripened follicles such as occurs after the implantation of fresh nituitary glands. Other vise their findings in juvenile normal animals after the injection of I unit were the same as after im plantation while in ovarectomized juvenile animals there was no effect. After continued injection into intact tuvenile animals centrus and growth of the uterus resulted but not a permanent cestrus such as follows the con much injection of follicular After consistion the appearance of the mucous mem branes was similar to that of pregnancy with poly poid growth cedema and abundant formation of mitoses in the epithelia. The simultaneous injection of followin led to permanent cestrus. In adult mice continued injection caused an almost monstrous en largement of the ovaries permanent cestrus and marked fat formation in the lutesnized ovarian In sexually matured animals no longer showing cestrus cestrus could be induced again with the sex hormon as in the Steinach experimentsthe animal could be represented In future experiments attempts vill be made to determine whether maturation of the follicles can be produced in the pregnant animal by injection of pitintary hormones as by the implantation of fresh anterior cituitary lobe

In male animals but only after the ir jection of a or 4 units for several days marked enlargement of the coudidy mis slight enlargement of the testis and cock's comb like distention of the seminal vesicles

resulted In castrated males no such effect was seen In these experiments also anterior pituitary ber mone proved to be the more important factor

Drips D G and Ford F A Irradiation of the Ovaries and Hypophysis in Disturbances of Menstruction J Am M 1ss 1925 sct. 1158

The continued study of a group of cases of primary obgomenorrhees and amenorrhees and of mesor rhagia and metrorrhagia has confirmed the impres sion that in both conditions there is an essential ovarian hypo-activity

The occurrence of spontaneous remissions and the variable results of all forms of treatment and difficulty to the evaluation of a new method

Low dosage uradiation of the ovaries or hypophysis offers an additional therapeutic measure in intractable cases. In those in which is has been used it has given a comparatively high percentage of favorable results to view of the seventy of symptoms and regulation when attained has continued

over a relatively long period In experimental studies which are still incompete an attempt was made to gauge amounts of roenigth rays for application to the ovaries of white rats which might be comparable to low-dosage irradiation in the human being Certain immediate varial ons in the cestrual cycle without disturbance of fate regularity were obtained. In most instances fe tility was not affected. The second and third genera tions of the arradiated rats were normal. It w snot possible to demonstrate precocious sexual de elopment of immature rats by irradiation of the hypophysis with varying amounts of roentgen ravs

Miller C J A Comparative Study of Certain Cynecological and Obstetrical Conditions as Eshibited in the Colored and White Races 1m 1 Obst & Gan c 1028 211 662

The negro race does not adapt itself well to the strain of city life Under urban conditions its natural ferundity is slowly decreasing and in the last quarter of a century its birth rate which was formerly far in advance of the wh e birth rate

was about 40 per 1 000 less than that of the whites According to the statistics of the Chanty Hospital of Lour rang pelvic di ea e is about twice as fre quent in colored women as in white women, and in probably 90 per cent of the cases in colored wome the disease is or specine or gin largely because of the high incidence of gonorrhots in colored males and the frequency of promiscuous sex relations in the colored race In colored nomen infections of the lower genital tract seldom remain local and tend to be more severe than in white nomen because colored women do not seek rehef until they are forced into the hospital by pain and incapacity Obviously operation must be done in the great majority of cases probably 90 per cent The fact that the colored mortality rate i only o o per cent higher than the white mortality rate is rather re

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Lundwall K The Reaction of the Body in Pregnancy (Ueber the Reaktionslage des Koerpers in der Schwangerschaft) Arch f Gynack 1928 CYYUV 158

This article begins with a general consideration of the development of the concept of disease from the theory of an anatomicohistological individual predisposition to recognition of the functional reaction capacity of the organism. The synthesis of this development represents the normal as well as the diseased organism as a morphologicofunctional unit This concention is applicable also to obstetries and gynecology especially to the changes which are brought about in the body during pregnancy The previously accepted theory of the action of a toxin in the pregnant organism is no longer tenable since we have learned how the organism reacts during pregnancy The difference in the reaction is the expression of a difference in sensitivity and func tional response of the cellular apparatus to toxic substances this constituting the reaction capacity of the body in relation to function and demand

The resistance of the organism is dependent upon the condition of the mesenchyme the so called reticulo-endoth hal metabolic system latter depends the general hodily reaction capacity te the constitutionally caused and conditionally modifiable type degree and rapidity of reaction This system is not a rigid anatomical structure but essentially a functional structure with great adapt ability and power to change a fact which explains the extreme importance of the mesenchymal cells in all defensive and adaptive processes. The im portance of these cells is manifested experimentally in the nature of the storage processes and the degree and rapidity of the effects of storage 1e the in tensity of the cellular reaction to stimulation. An insight into the reaction capacity of the pregnant organism can therefore be obtained by determining how the reticulo endothelial system reacts to similar stimuli I revious investigations along this line were carried out chiefly from the morphological viewpoint. In this article the author reports studies of the capacity of pregnant and non pregnant women to store ferri oxidatum saccharatum

Numerous experiments regarding tosus storage which were curried out by Heiffer with saccharated from on armals showed great differences in the tissus storage depending upon the minimer in which the solutions prepared and the manner in which was introduced. It is necessary however to use a method their solutions of the products of metabolism and of the blood katabolites since in creased metabolism requires a different evaluation creates a different evaluation.

The investigations show a distinct difference in the storage capacity of pregnant and non pregnant organisms as well as a marked increase in the reaction capacity during pregnancy

In the author's experiments which were carried out on fasting women to c em of blood were re moved and then with the needle still in place 50 c em of a 4 per cent solution of ferri oxidatum saccharatum were impeted Four minutes and sixty minutes after the tipietion blood was withdrawn from the arm and centrifugalized in parafined tubes. The hieroglobin free serum thus obtained was then tested for 100n. The 100n content was determined by a microchemical method developed by the author in collaboration with Zechner.

Twenty women wer used for the experiments seven non pregnant women in the intermenstrual period eleven normal pregnant women in the ninth of tenth month of pregnancy one normal woman in the second month of pregnancy and one woman suffering from hyperemess in the fifth month

After the injection the non pregnant women showed a more marked therease in the quantity of iron than the women in advanced pregnancy. On the other hand the women in advanced pregnancy showed a value between that of the women in advanced pregnancy and that of the non pregnant women. Likewise the woman with hyper measus in the fifth month of pregnancy had a higher value than the non pregnant women. Exen when a microsed of about 25 per cent in the blood wolume doing pregnancy and show the pregnancy had been the pregnant women. Figure 1 and 1

ably increased While the storage test alone is of importance it demonstrates only partial function of the reticulo endothelial apparatus-for example the storage capacity may be normal but the other cell function max be reduced (Schuettenhelm Aschoff) Laufmann test of the local reaction capacity of the cells of the blood vessel walls and the subcutaneous connective tissue is necessary for conclusions regard ing the condition of the organism as a whole. This test depends upon a qualitative study of an exudate of the skin brought about by the use of a cantharides plaster From the percentage composition of the cell meture conclusions may be drawn regarding the finer reactive processes in the tissues. The character of the exudate cells is indicative not of the type of the disease but of the immunobiological strength of the organism and therefore of its reaction capacity The author's investigations with this test made

on eighty five women yielded the following results

bladder symptoms From these and similar cases reported by others the author concludes that all women with marked prolapse should be subjected to a urological examination and if infection is found should be treated for that condition before and after the operation

The operation in Clutes opinion the Walkins interposition operation is the salest and best procedure for itemporapse and cystocle. It is of value particularly in the cases of obese women and as it can be performed under spirial analges, in those of women suffering from arbitran or brunchitis. When the best entired. Fartial amputation of the items who is templated a fartial amputation of the other with interposition of the remaining portion is disacrosis on account of the possibility of infection II the cervit is hypertrophical and elongated it should be amputated before the interposition of II allowed the cervity of the companies of the cervity of the companies of the cervity of the cerv

Frubinsholz A The Indications for Operation in Cases of Lutein Cysts Associated with Hydati form Mole (4 propos des nodestones opératones luce à Lengtence des kystes luténiques connectant avec une mole hydatiorme) Gynte si ebis 1928 xviii 193

There is a difference of opinion as to the significance of latein cists a sociated with hydationmole and their effect on the prognosis of the latter condition. The author reports two cases which bear upon these questions. The first case was that of a woman investifing. Scars of age who was under observation for a year and was subjected to repeated through earn as thous. The understood observations are considered by the hydrottom mole. A large laten cyst was been also also that the state of the s

retrogression of the crists The author concludes that it is not necessary to operate in every case of mole associated with large cysts even when the cysts persist two and a half months after expulsion of the mole or even when there is a suspicious uterine discharge. The discharge may be caused by subinvolution or n or dinary infection and uterine involution with relie gression of the cists may be brought about by late curettage When bilsteral ovarian evits are assocrated with enlargement of the uterus and mensional disturbances in the absence of a demonstrable mo's a microscopic male may be present. In such cases operation should not be performed except as an emergones measure until it has been determined whether an exploratory curettage will burg shout involution of the uterus and retrogression of the ADDREY G MORGEN MD crsts

With a considerable increase of colloid liability there are usually found both a relatively low blood choics term value and a considerable delay in the elimination of the diese. Ethich's a lidebly de reaction in the serum is almost regularly positive in both normal and pathological prenancy i probably indicates only a colloidal transformation in the blood mileu in pregancy and does not justify the assumption that the positive reaction is specific for the presence of urboilingore.

The authors conclude that the almost regular demon tration of urobilin in the serum and urine during pregnancy together with an increase in the bibriobin value and the frequent appearance of urobilinogen in the urine is evidence that during pregnancy the function of the liver differs from the normal

Schoenig A Estimations of Calcium in the Blood Serum of Mother and Child (Lallbestimmungen im Plutserum von Mutter und Kind) Monatsschr f Geburish u Gynach 1928 lxxvui 32

The investigations reported in this article were carned out according to the technique of de Waard with which the author found the calcium content of the blood serum of normal non pregnant women to be from 10 5 to 11 5 mgm per 100 c cm of blood serum

Sixty women were examined most of whom were in the ninth or tenth month of pregnancy. The salies ranged from y 10 to 11 15 mgm and averaged 9.35 mgm per 100 c cm of blood serum. The same values were found in two women in the sixth and stretch mostly of the same than the sixth and

seventh months of pregnancy The author rejects the theory that this lowering of the calcium content of the blood is due to a trans ference of calcium to the fetus. In support of his opinion he cites the work of Wehefritz Kehrer and Schmitz He believes it improbable that the daily slight loss of calcium by the mother to the fetus is not replaced by the calcium ingested with the food Moreover he calls attention to the fact that on the sixth and seventh days of the puerperium-at a time when calcium is lost as the result of lactation and drainage of the lochia-the blood calcium values correspond with those of the non pregnant state or are even higher The cause of the diminution in the blood calcium ceases to be effective at the moment of delivery Therefore if the transference of calcium to the fetus is not the causative factor the secondary changes in the maternal organism produced by the pregnancy must be reponsible The cause may be in the calcium-excreting organs (intestines and kidneys) and the calcium regulating organs (endocrine glands and vegetative system) The literature shows that it is not a loss of calcium that diminishes the calcium content of the blood but displacement of the calcium due to the tissue and metabolic changes in the mother produced by the fetus Attention is called to the decrease in the blood calcium in ordema due to cardiac insufficiency and after injections of adrenalin

According to the author's theory of the regulation of calcium metabolism the pituitary which hyper functionates during pregnancy everts through its pedicle affect of the centers of the vegetative nervous system in the midbrain (Beidl Maier Trendelenburg) in the sense of increased stimulation of the sy magnitude incree. The parathyroid glain of calcium results as you the nerves and retention of calcium results as you the nerves and retention.

In simultaneous examinations of the maternal and infantle blood the author found regularly higher blood calcium values in the infant. In the infant the average value was 1; g6 mgm per 100 c cm of blood and the highest and the lowest values were 1; of and 1: 2 mgm per 100 c cm. The maternal and infantle concentration of calcium the placents maintained the differences in the concentration. Therefore the theory of a free exchange of the salts through the placents anaccording to the laws of osmosis must be rejected. In this connection the investigations of vio Octungen are

The author was surprised to find that the blood of the mothers of boys showed higher values of calcium than that of the mothers of girls (namely 0.42 mgm as against 9.07 mgm per 100 c cm) I timiparæ and multiparæ also showed a difference the value in the former being 0.25 mgm and the value in the source being 0.25 mgm and the value in the author this indicates an adaptation in multiparæ to the repeated definancies of pregnancy. Book (5)

Sserdjukoff M and Morosova A The Calcium Content of the Blood at Different Stages of Pregnancy and in Toulcoses and Puerperal Diseases (Der Calciumgehält des Blutes bei verschiedenn Pernoden der Schwangerschaft Tou kosen und Nachgeburtserkrankungen) Monatischr f Geburtät us Gynnek 1928 levun 237.

This article begins with a historical review of the literature on investigations of the calcium content of the blood of pregnant women and the rôle to be accruded to the calcium in the organism as regards the nerve muscle system. The calcium regulates the alkala acid balance in the body and also the colloidal balance of the body albumin. which influences the stability tumescence and dispersion of the proto plasmic cells and thereby the vital functions of these cells.

The authors own investigations included 216 cases totaling 311 examinations with the micro method of Pincussen a modification of the Kramer Tisdall method. The calcium values found expressed in milligrams per 100 ccm. were as follows.

| | Lowe t | Hgh t | А гате |
|------------------------------|--------|-------|--------|
| Healthy non pregnant females | | | |
| Product of pregnant remaies | 9 00 | 13 7 | 11 25 |
| First half of pregnancy | 9 44 | 130 | 11 ,8 |
| Second half of pre-nancy | 9 24 | 13.5 | 11 46 |
| Dunne labor | 9 96 | 11 5 | 10 73 |
| 1 uerperium | 9 50 | 125 | 11 02 |

In the cases of non pregnant women the average number of monocytes constituted 3 8 per cent of all cell forms found whereas in normal pregnant nomen the percentage varied from 75 to 18 Dur ing labor it sank to 43 and in the third week of the puerperium reached the normal value of 3 r. While more or less marked variations were noted in the individual curves in these cases in the cases of hyperemesis an elastic rebound of the monocyte curve after a sudden rise-for example from 17 to 12 per cent-was noted more frequently. In two cases of eclumpsia and one severe case of hyper emesis there was no skin reaction or vesicle forma tion From these observations the conclusion may be drawn that on the one hand there is a marked clasticity in the reaction adaptability of the organism and on the other hand the reaction capacity of the organism is better the stronger the reaction of the reticulo-endothelial system

The increase of function in pregnancy consists not only in an increase in the absorption capacity of the individual cells but also in an active new forma tion of cells whereby otherwise quiescent storage areas become activated. The increased reactivity and permanent hypertrophy particularly of the parenchymatous organs during pregnancy can be explained only by the adaptation and new formation of cells. As long as the organism is unable to provide cells which are adapted to specific function its metabolic and defensive powers will be weak. This explains why primigravide especially in the early stages of pregnancy frequently suffer severe disturbances and toxicoses while multigravide have a sort of immunity derived from previous pregnancies This was evident from Benda's tests of the reaction capacity of primigravide. The greater incidence of pathological conditions in primigravida is due not to their youth but to the fact that it is their first pregnancy

The theory of insufficiency of the metabolic and exerction organs in normal pregnant women is based upon faulty conclusions from incorrectly studied material In a similar manner it may be explained with intercuption of pregnincy during the course of an infection is selond beneficial and fire to the course of an infection is selond beneficial and fire to the course of the course

The development of eclampsia and all other too coses of pregnancy must be considered from the same point of were the theory of a single cause for eclampsia is back on the fact that organs that are impaired flor example the kidneys and the liver) always above signs of instifficency under demands made upon them by the fetus although the beginning of the eclampsia is not to be found in these impaired organ. There is no organ that is constantly affected in the same way by eclampsia : I that shows changes characteristic of eclampsia Accord engly eclampsia the manifestation of a relative overtaxation of the metabolic and circulatory or gans and not of the forestion of a tour by the fetus The fact that it is not the fetus but the reatons expactly of the pregnant woman that is peasible for the development of toxicoses is proved by the occurrence of estimapsis during the purpermin Therefore the treatment should not be the removal of the fetus and planents but prophilatric destroyed measures to refer the prophilatric destroyed measures to refer the prophilatric destroyed measures for immunication (the administration of serior from cuted echapitics) and measures for immunication (the administration of serior from cuted echapitics) etc. In this manner are heat met the requirements for simulation that the prophilatric destroyed the contraction of the prophilatric destroyed the contraction of the prophilatric destroyed the contraction of the prophilatric destroyed the prophilatric des

Eufinger II and Bader C W The Function of the Liter in Pregnancy 1 Storage of Dre artifis in Pregnancy (Die Leberfunktion in der Schi angerschaft 1 De Farb offspeicherung in der behwai gerschaft) inch f Gynort 1915 ETWIN 220

All methods of studying the retrudue redeal ball system confirm Ribberts of amountation of a point capturity of certain mesenchymal cells to stock on the first to undertake a large section by the confirmation of the study of the study of the study of the study of the studying t

storage of dies The lack of agreement in the results obtained by these investigators led the authors to undertake re searches of their own in which they followed care fully the method of Reimann and Adler in ecung from 12 to 14 c cm of a 1 per cent tolution of Congo red intravenously. In each case they estimated simultaneously the bilirubin content of the blood by the van den Bergh method carned out Ehrlich salde hyde test in the serum and unne and determined the urobilin in the serum and urre by the fluores cence test with Schlesinger's reagent. A total of 100 healthy pregnant women were examined and in addition a large number of women with toncoors The findings show that in the early stage of preg nancy the speed of elimination is approximately normal Beginning with the sixth month there is a distinct progressively increasing retardation relative as well as absolute in the storage process whi b reaches its meximum in the last month of pregnancy and during parturation. In the first days of the puerperium the storage speed returns to its original

Of the cases of toxicosis of pregnancy those of hyperemesis and interus of pegnancy were distinguished by an especially marked delay in climination. In nephropathy and eclampsia the results were inconstant.

The proce s of elimination of dves is not dependent solely on the state of the reticulo-modulities but is influenced to a large degree by the physicochemical structure of the reaction miles.

tineal line It was somewhat flattened but other wise was normal even heing surrounded by abundant penrenal fat. The vessels were engorged and some of them seemed directed to the origin of the common iliac artery Recovery was uneventful

This anomaly has been observed several times In most cases it has had no effect on the pregnancy but in some instances it has caused abortion. In one case reported nephrectomy was necessary on account of hydronephrosis

In fourteen cases reported the kidney interfered with labor. In ten the labor was terminated without accident. In the four others it was terminated respectively by nephreetomy by the vaginal route rupture of the uterus embryotomy and cresarean

After considering all of the methods proposed for dealing with this condition (transplantation of the kidney premature induction of labor symphysiotomy) the author concludes that the best procedure is cervical casarean section

ALBERT F DE GROAT M D

Pickles W and Jones S S Regional Anasthesia In Obstetries New England J Med 1928 excix 988

The authors describe the neuro anatomy of the region of the sacral nerve review the literature on sacral nerve block and describe the various methods by which this type of anasthesia is induced. They have sdopted the epidural method and report

twenty-eight deliveries in which it was employed The injection is made through the sacral hiatus which is bounded laterally by the sacral cornua and above by the fourth sacral spine and is covered by the sacrococcygeal membrane After anasthetiza tion of the superficial tissues an unbreakable spinal needle is introduced through the membrane and advanced until it touches the anterior wall of the sacral canal when it is slightly withdrawn its di rection is changed to accord with that of the sacral tanal and it is then advanced 3 or 4 cm After with dramal of the stylet aspiration is done and if blood or spinal fluid is obtained the needle is withdrawn slightly until no such flow occurs. When it has been definitely ascertained that the point of the needle is not in the dural sac or in a vein 40 cem of a x per cent solution of procain without adrenalin are slowly injected Anæsthesia is usually complete in from ten to fifteen minutes and lasts about two

Of the twenty-eight patients whose cases are reviewed twenty six were primiparæ inæsthesia was complete in twenty six In one case the needle failed to enter the canal and in another a bony deformity made the injection difficult and only partial anasthesia of one and one half hour's dura tion was obtained In five cases the labor outlisted the anxithesia. The average duration of spontaneous labors was fort; nine minutes The extremes were ameteen an I ninet; minutes In the cases of primi pare the injection was generally given when the os

was fully dilated and in those of multiparæ when there was a dilatation of 6 or 7 cm Most of the patients required continual urging to persuade them to use their abdominal muscles There was no untoward reaction of importance and no icereased tendency toward postpartum hæmorrhage

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The chief disadvantage of the method is the fairly short duration of the anæsthesia Procain poisoning did not occur in any of the cases reviewed. The authors attribute such poisoning to injection of the procain into a vein

The chief indication for the method is a condition contra indicating general anasthesia such as toxicmia or a heart lesson. The method should not be used if the patient is irrational or non cooperative or there is an infectious process near the proposed site of

injection Pitkin G P and McCormack F C Controllable Spinal Anasthesia in Obstetrics Surg Gynco & Obst 1928 glv11 713

E L KING M D

The authors review eighty nine cases of delivery

under controllable spinal anæsthesia

Gliadin (the mucilaginous content of wheat starch) is injected with the anasthetic solution to prevent mixing of the latter with the spinal fluid before it has been absorbed. When a small amount of solution is injected into the subgrachnoid space it is confined to the lower portion of the spinal canal and anæsthetizes only the sacral nerves with resulting anasthesia of the perineum the inner side of the thighs for 5 or 6 in and the region from the symphysis in front to the lower part of the sae rum in the rear. The cervix vagina and vulva and the sphineters of the anus and bladder are com pletely anæsthetized while sensation of the uterus is not impaired

The gliadin lessens the toxin symptoms of the novocain If too much gliadin is used in the solu tion the induction of an esthesia fails or is greatly delayed whereas if too little is used, the anaesthesia

cannot be controlled

The patient is placed on her right side and the head of the delivery table is raised from 15 to 20 degrees She is never allowed to he entirely flat or in the Trendelenburg position as in these positions the heavy solution may ascend high in the eanal producing a drop in the blood pressure nausea vom iting and beadache

Viter the skin and the interspinous ligament have been injected with a solution of novocain (0 or 1) ephedrine (o s) and normal salt solution (q s 13) the puncture is made between the fourth and fifth lumbar vertebræ with a No 22 gauge lumbar punc ture needle with a short bevel of 45 degrees

When clear spinal fluid starts to come away a syringe is attached to the needle and a solution of

novocam (0 2) gliadin solution (0 13) strychnine sulphate (0 0022) glucose (0 065) and normal salt solution (q s o s) is injected. On withdrawal of the needle the wound is covered and the patient turned on her hack. Anæsthesia results in from ten to During factation there seemed to be a tendency toward a decrease in the values

Like all previous investigators the authors found that the calcium content in the blood from the umbilical cord is greater than that in the maternal blood ranging from 10 8 to 18 mgm and averaging 13 54 mgm per 100 c cm In the amnustic fluid the values ranged from 5 56 to 0 44 mgm and averaged 7 37 mgm per too c cm The values always re mained the same in the same noman before and after labor and in the first half of the puerperal period. In contrast to practically all previous in vestigators the authors noted no decrease of the calcium in the blood in toxicoses of pregnancy (except in chores in the second half of pregnancy in which the value was to 2 mgm per 100 ccm l Even in eclampsia they found uniform hypocal comus. Only in isolated cases did they see a reduction in the calcium content and this showed no relationship to the number of the attacks or the severity of the disease. Only in the nephropathy of pregnancy was there a regular diminution of the calcium from the normal the average value being 8.41 mgm per 100 c cm and in these cases eclamo sia did not develop. In local diseases of the puer perium of slight seventy the calcium values re mained about the same or showed only a slight reduction Severe disea es of a septie or præmic nature were associated with a marked diminution of the calcium content of the serum to as low as

9 45 mgm per 100 c cm

\s a result of their investigations the authors
conclude that the calcium balance during pregnancy
and in the toticoses of pregnancy has no decisive
simificance

Box. G)

Davidson A M. The Use of Vlorphine in Eclamp

Davidson states that the great diversity of opinion among the leading obstetricians regarding the use of morphine in eclampsia is to be expected inasmuch as the etiology of eclampsia is still unknown. There is as yet no absolute proof of any of the many etiological theories advanced. It is possible that eclampsia is due to the excessive production of a normal hormone of pregnancy the function of which is to soften the genital tract to facilitate delivery Excess of such a hormone acting upon tosues other than those for which it is intended would cause adema and a further excess would interfere with hidrey function and ultimately irritate the central nervous system causing convulsions cyanosis and death. The source of this toxic hormone is believed to be the placenta. As set no method is known by which the formation of the hormone may be pre It is belie ed that any factor which in creases the metabolic rate of the mother will increase the output of the toxin and that conversely any factor which will decrease the metabolic rate of the mother will limit the output of the town

There is little in the literature regarding the effect of morphine upon metabolism and very little infor mation regarding the normal changes at the near bother rate due to pregnancy. Stunder has shown experimentally that in normal animals morphue increases the exhon-dioxide combining power of the blood. Accordingly morphine tends to counter act acidosis. Cushny and Clark their shown that morphine has no effect upon kidney function exceptional control of the control of the control and the control of the control of the control and the control of the control of the control with climination may be overcome by large of the stomach and colon as recommended by Fitzethon.

sometan and cooks as recommended by Fitiphon.

Thus and others have shown that the convol use of eclangus are preceded by a sudden drop in the solution of eclangus are preceded by a sudden drop in the preceded of the sudden drop in the sudden that the sudden the sudden that the sudden the sudden that the sudden that the sudden the sudden that the s

panne given to alies the enginetry rate entropy.

The conclusion may therefore be drawn but provided lavage is carried out there is no continuistation to the use of morphise in the convolutionary of eclaims as at he delay of elimination by kidner function is much less than as formetiv be leved. Morphine as of mestimable value in rational musculuse effort in quieting the mart of the pairway, and in tending to prevent the numerous secondary effects of the corrowal ions.

SAMUEL J FOCEISON ACD

LABOR AND ITS COMPLICATIONS

Ramos A P Congenital Ectopic Kidney as a Turnor Prævia in Labor (La dystopic rénue congénitale comme tumeur previa deus l'accordement) Gyné e dobt 1923 xviii 97

In the course of the rotutine examination of a primipara in the eighth month of pregnancy the ceruit was found deviated to the right sail of the pelvo. The presenting had was high in the pelvi and displaced to the right fa the left raginal cuil de sac a flattened tumor the size of a mindem orange could be felt on the posterior sail of the pelvis below the promovitory. Slight mobility singgested that the tumor had a short pedicit.

Several diagnoses were considered the list on being ectopic kidney. Cystoscopy revealed nothing abnormal but on catheterization of the untern the left unter was found very short about so on in length. The function of both kidneys was normal lyelog aphy demonstrated clearly an ectopic bidny lodger in the superior strate.

The keenment was expectant but when labor began it soon became evident that the tumor would continue to obstruct the birth canal. The paint's was therefore delivered by cervical createran section. The kidney was found to embrace the left if opec.

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Wesson M B Pyelography California & Il est Wed 1028 XVX 207

I'en years ago pyelography was considered a dangerous surgical procedure Today hecause of the harmlessness of the reagents used and the suc cessful sales talk of cystoscope salesmen many general practitioners make their own pyelographic

examinations I selography is ordinarily a simple procedure but

follow urethral instrumentation

cystoscopy is not. Complete anuria and death may The use of warm or hot water as an irrigating medium causes fogging of the lens and softens the eatheters. As the bladder is relatively insensitive to rold water the irrigating solution should never

be above room temperature Catheters are ruined by sterifization by being stored in a container connected with a receptacle of formaldehyde by boiling and by prolonged soak

ing in bichloride of mercury solution

I welve per cent sodium iodide has been found to be a harmless and satisfactory pyelographic me dium The use of 15 to 25 per cent sodium bro mile as a pyelographic medium is associated with danger and discomfort

Double pyelograms are necessary in order that the two Lidneys may be compared Bilateral bizarre shipes are congenital but a unilateral bizarre shape

indicates a pathological condition

Double pyelograms can be made with impunity in any case in which bilateral ureteral catheterization

has been done

The injection is most satisfactorily accomplished by the gravity method with the use of two burettes hell in a stand at a height of from 18 to 24 in above the patient. When the fluid stops running the kidney pelvis is filled. The injection requires from one to five minutes

When a syringe is used there is generally over injection which spoils the pi ture and causes di comfort for a few hours. This is true also when a gravity burette is held by a nervous or impatient a satant

The author reports six cases in which a pielo graphic examination was made. The first was a case of diverticula of the bladder with reflux to a left [vonephrosis In the second there was hydro pephrosis of the right kidney due apparently to an abetrant arter) and the passage of catheters had caused anuria of the normal left kidney th of tase a small stone was found in an uninfected non functioning kidney and a staghorn stone in an infected functioning kidney. In the fourth case

over injection resulted from 24 m gravity pressure

the solution praying out through or between the

tuhules. In the fifth case in which there was bila teral ptosis of the kidney a unilateral pvelogram led to nephropery and four years later the kidney had resumed approximately its former position sixth case there was a calcified hæmatoma

LOLIS GROSS M D

Gibson A G Pyelitis and Pyelonephritis Lancet 1928 CCTV 903

Gibson divides 114 cases in which he studied the Lidneys at autopsy into two groups (1) 72 cases with no obstruction to the outflow of urine and (2) 42 cases with such obstruction. He concludes from his findings that hy far the most common infection of the kidney substance in man is an infection through the blood stream. This type is found in 77 per cent of all cases of renal disease whether urinary obstruc

tion is present or not From a study of the clinical records of the cases reviewed Gibson found that pyonephritis may occur (1) as mild attacks which pass without notice or perhaps with only slight discomfort (2) moderate attacks which are attributed to what is (3) septicamic ordinarily termed acute pyelitis attacks simulating typhoid or other grave conditions and (4) fulminating attacks in which the kidney may become gangrenous and death is

The type of kidney inflammation which is caused by repeated attacks of pyelonephrosis and scarring and is called atrophic pyclonephritis is not so clearly recognized by physicians as by urologists In the author's series of cases there were eleven of this type. The condition may occur on one or both sides The Lidney is small contracted and fibro ed In extreme cases no Lidney substance may re

I yelitis an inflammation of the inner lining of the pelvis of the kidney is ordinarily considered a common lesson but Gibson found that in purulent and semipurulent infections of the kidney it was very uncommon in the absence of obstruction though it occurs in about 50 per cent of the cases when obstruction is present. Therefore he believes

that many cases of so called pyelitis are cases of os elonenhritis Prelitis as an anatomical lesion occurs in tuber culosis of the Lidney nephrolithiasis gonorrhea

and all ascending infections

The state of the urine varies considerably in pyelitis and pyelonephritis Frequently it gives very little aid in the diagnosis and in some instances the absence of abnormality in the urine may divert attention from the kidney even when there is a localized purulent infection of that organ. This is apt to be true e pecially in cases of acute infarctions

twelve minutes. After the injection the patient is kept on her back with her head slightly raised for

from one and a half to two hours

If anasthesia is desired higher on the body surface it is induced by aspirating and re injecting

24 or 6 c.cm of the spinal fluid
On account of the ease of introduction of the solution and the rapidity of its effects this type of
anasthesia is better than caudal or sacral anasthesia

tion and the rapidity of its effects this type of anisythesias better than caudal or sacral anisythesia. It has none of the complications of inhalation amasthesia. There is no shock or drop in the blood pressure. The rigid or spastic cervit becomes soft and dilates rapidly and the perincum relaxes so that version the application of forceps etc are greatly facilitated.

Controllable spinal anasthesia is indicated in the cases of nomen with tuberculosis pneumonia asth ma emphysema cardiac decompensation diabetes eclampsia acidosis pyelitis and evere anamia Pittute H Annot M D

NEWBORN

Munro D Cranial and Intracranial Damage in the Newborn Surg Gynec & Ob 1 1928 alva 622 Postmortem and microscopic studies in forty five

of fifty-are primarily fatal cases of cranial and intra cranial damage in the newborn showed that the most common pathological entities were meningeal and intracortical harmorphage congestion and cadema Gross intracranial hemorphage may occur from

thracorreat namorning congestion and external Gross intracennal hemorrhage may occur from the rupture of large venous sinuses. The most common sites are the great ven of Galen and the lateral sinus.

Forty-eight of the fifty-eight babies which were dis barg d from the hospital iv.ag and rich of were followed up. Thirty nine may be regarded as cured. Five are still too young to allow a satisfactory, et mution of the end re ult.

The most common late result of cerebral damage in the newborn is hydrocephalus associated with epiteps, or udiocy. Convulsions alone and spectical, associated with idiocy have also occurred.

In the cases reviewed lumbar decompression as done after recovery from the surgical shock. In soft tem parental blood was given intramuscularly in the cases of harmorrhagic disease. Depressed fact three week elevated as soon as possible Ventredurguncture and a typical subtemporal decompression were done three.

REMAND CODY VID.

MISCELLANEOUS

Hahn M. The Treatment of Syphilitic Mothers and Children in Welfare Statons (Footwisbehandlung der leutischen Muetter und Kinder) Zische J G bu i h u Gynach 1018 wu 295 318

The author discusses the various mas ures that must be employed in welfare such for sphillies mothers and children. In making the diagnous is the case of the symphistic mother compulsion must be avoided. The aim should be a legal replacion making assistance of any kind is unstremy trade dependent on the obtaining of a ferological control of the second of the secon

isenty four year history of hematura, which was probably due to disturbances of the rand creditation resulting from kinking or compression of the renal resulting from kinking or compression of the renal result found ownward dislocation of the enlarged kidney. Such hematuriss are regarded as the cause of albuminous stones since hemature can be demonstrated chemically in the concretions. Around the congula there are deposited as the result of changes in the surface tension amorphous unc acid and cristalloids of unknown form or albuminous masses including bacteria in the sense of colloid preceptia ton.

JANSEN (2)

Cahill G F and Glie II II Calculous Anuma
J Am M tss 1928 xx1 1970

Calculous anuta occurs under the following four conditions (7) when both unterters are blocked () when one ureter is blocked and the other is undeveloped or has been removed or destroyed by these ase (j) when a single fused ureter draining both kindneys or a double kidney becomes blocked and (4) when one kidney is blocked and the other fails to secrete

It is most frequent in middle age and occurs more often in males than in females. The symptoms are pain and anura followed first by dryness of the skin nausea sleeplessness and gaseous distention of the gastro intestinal tract and later by drowsness nausea ordems of the evelids twitchings convulsions and sometimes blunders.

The treatment is nephrotomy and drainage through a lumbar incision on both sides if necessary under nitrous oxide oxygen anxisthesia. After this operation the condition returns to normal in two months. BENJAMES FROMES MO

Campbell M F Ureteral Obstruction in Infancy im J Surg 1018 v 445

Urteral abstructions particularly congenital structures are not uncommon in children and may be the underly cause of persistent urinary tract in fection with many cause of persistent urinary tract in discousant between the constant of the

When the obstruction is recognized and treated early the patient may be spared irreparable renal destruction and in many cases years of suffering or an early death

C TRIVER STEPTY M D

Coffey R C. Transplantation of the Urerers into the Large Intestine Surg Grice & Old 1928 2011 593

In an article of considerable length profusely illustrated the author takes up m detrul the fundamental pumples moded in the tran pluntation of the urters into the large intestine. He then traces the through steps in the development of the operation and discusses the types of operation and the dating has own. He defines the problem in this

work and reviews much of the experimentation which has been done in the development of a satis factory technique. The technique of the operation as now performed is described in minute detail and the complications to be guarded against in the post operature course are pointed out. The records of a number of cases in which the operation was per formed successfully are presented.

In conclusion Coffey says that now for the first time he feels justified in recommending this opera long for general use by the skilled surgeon for any condition in which it is necessary to dispense with the bladder as a reservoir for time.

IOIN G CHEETHAM M D

BLADDER, URETHRA AND PENIS

Frontz W A Submucous Fibrosis (Localized Cystitis) South W J 1928 vx1 899

This article deals with the relatively uncommon form of extitits first reported by Hunner in 1913 as clusive ulter of the bladder. The symptoms are out of all proportion to the urnary and extoscopic findings as the ulter may have disappeared entirely and the process may be limited to the deeper layers of the bladder wall.

The predominant and constan symptoms are unitary frequency and pain the former in many cases amounting almost to incontinence. The pain which is caused by distention of the bladder is suprapulue and usually severe and cutting in character. In many cases there is a history of hema turns following overdistention of the bladder and ooted only during a single working.

A constant finding is reduction of the capacity of the bladder to between 100 and 150 c cm or less In many cases the appearance of the vesical mucosa is so little altered that if the condition were not suspected the lesson might not be found. The area of reddening varies in diameter from a few milli meters to several centimeters. If the bladder is overdistended the formerly intact mucosa covering the lesion may be the site of bleeding fissures When the urine is clear the fissures heal promptly The diagnosis is rarely very difficult. It is suggested by the history of long continued urinary frequency associated with suprapubic pain on overdistention of the bladder and becomes practically certain when there is no urinary obstruction and no patho logical elements can be found in the urine. The characteristic pathological change is a fibrosis of the submucosa The mucosa rests on a dense scirrhous laver instead of the normal loose areolar tissue When the deeper bladder layers are involved the lesson is thick walled

A cure can be obtained only by surgical extirps ton of the lesion. Recurrences may develop at the original site or elsewhere in the bladder. The author employs deep fulguration under aneithesia before resorting to more radical surgical measures. Before the bladder treatment is begun all foct of infection should be eradicated. CLAUD D Hours MD Crosble 4 H Pyelonephritis Varth est Med

Pyelonephritis in its various forms is the most common condition seen by the prologist. The term pyelonephritis should include all cases of pyelitis

Acute pyclonephrits in an otherane normal kalent enter the become cured. In cases of recurring attacks however slight a pyclographic examination should be made. If the attacks recur in halings that have been proved otherwise normal a search should be made for sources of infection such as devitabled teeth infected tonsils and intestingla status.

Pain is not a constant nor a reliable asymptom in either simple pyelonephritis or pyelonephritis developing in an abnormal kidney. I yelonephritis in an abnormal kidney—that is in the presence of stones or a kink of the urcter—may entirely destroy the kidney without causing localized pain.

To every case of pselonephrits the urmary sediment should be examined after subsidence of the symptoms. He repthrog (see leucory, tes or bacteria persist a pselographic examination should be made. A kidney rarely becomes destroyed without the appearance of evidence of its destruction in the unsary sediment. C. Tavakas Errera M.D.

Rudnick D F Bilateral Renal Tuberculosis End Stage with Scierosis and Calcification J brot 1928 xx 625

Four types of senal tuberculosis can be differentiated (1) tuberculosis of the kidney without X rav signs (2) chrome ulcerative tuberculosis of the kidney (pelvis calves and ureter) (3) comenkidney (Moertelniere) and (4) calcified tuberculosis of the kidney

In the figure,

In the first type the urine usually shows tubercle
bacill long before the \(\text{ray findings} \) become
positive and there may be extensive destruction of
the kidney parenchyma before deformity of the

privis or cals ces can be demonstrated

In the ulcerative type the pyelogram shows

changes in the pelvis and calyces
In the cem in kidney the diseased areas are filled
with caseous material in which calcium is deposited
Colleged to be replaced of the kidney is deposited.

with caseous material in which calcium is deposited Calcified tuberculosis of the kidney is a healing or localized tuberculosis with calcification. The \times ray shadows of tuberculous lesions of the

kidney must be differentiated from those of (1) cal cult (2) by dronephrosis and pronnephro is (3) para nephrinci abscess (4) perinephritis (5) cystic kid ney (6) a calcified blood clot in the pehrs (7) a calcified ancursin of the renal artery (8) tumors of the kidney and (6) bilibarizasis

The author reports a case of bilateral renal tuber culous an a man forty verse of age. Five years previously the patient had developed a cough and tubercle bacilil were found in the patient. After treatment in a sanatomon for a time. After treatment in a sanatomon for a time. See months became the good properties of the patient began to bave frequency urgency and slight borning with coasing out of the time that the patient began to have frequency urgency and slight borning with

was greatly reduce! the urine from the left sale contained tuberth bacili and the pielogram of the left kidney showed enlargement and patenchymal destruction. Shortly thereafter tubercle bacilli were found in the urine from the right kidney but the nyelogram of this kidney was normal.

The patient refused operation left the sanstonum and went hack to work. During the next few month has blood pressure rose from 170-174 to 260-19. ATV examination of the unnary tract at the ed of that time showed calcification of the left hidner and a beginning of this process in the right hidney. Cystoscopic examination showed a normal urtend eithur from the right unterstanding or office but now from

the left side.

In conclusion the author states that sclerous with subsequent calcification of the kidneys is not an uncommon affermath of read futerculous. If usually occurs in one kidney but may be bilated. The case reported in this stutled presented as as tensite clinical course. If demonstrates the necessary for fight X-xp plates in case presenting rows gesting, possible renal involvement and case of adominacy conditions of an observe nature particularly those with a history of operating interference without benefit. Carlos D Hourst MD.

Troeltzach J Albuminous Stones in the Read Pelvis An Attempt at Their Histochemical Decomposition (Lineus Steme im Nierobecker Versuch ihres histochemischen Abbaus) Zin & J well Clar 1038 Zin 443

In the case reported in the srt cle the chiral diagnosts was calculous in operators of the left said and hydronephous in this store and wetericalculi on the right side. The development of complete snuria led to operation. A neptrostomy was done on the right's de after removal of the store.

but the patient died from renal musficiency Autops; revealed bilateral fishoosphories la life left pelvis and ureter there were tea shumanos stones and in the lower portion of the 15th term was an oxialte stone the si c of a date place with the condition of the conditions were protections a per renal abscess that had ruptured into the scending

colon and suppurative diphtherene crabins. Only a few reports of concettons of organization that have reports of concettons of organization and the second of the colon of the

Tranged glassy lavers

The results of the chemical h tological and
crystallographic examinations of the albumonous
bodies and of the attempts at their h tochemical
decomposition must be read in the original

In discussing the genesis of the stones in this case the author rites the fact that the patient gave \$ twenty four year hi tory of harmatuma which was probably due to disturbances of the renal circulation resulting from kinking or compression of the renal veins from downward dislocation of the enlarged kidney Such harmaturias are regarded as the cause of albuminous stones since harmatin can be demon Around the strated chemically in the concretions coagula there are deposited as the result of changes in the surface tension amorphous uric acid and cristalloids of unknown form or albuminous masses acluding bacteria in the sense of colloid precipita TAYSSEY (Z)

Cabill G F and Glie H H Calculous Anuria J Am M tsr 1028 xr1 1070

Calculous anuria occurs under the following four conditions (1) when both ureters are blocked (2) when one ureter is blocked and the other is unde veloped or has been removed or destroyed by disease (3) when a single fused ureter draining both kidness or a double kidney becomes blocked and (4) when one kidney is blocked and the other fails to secrete

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operation the condition returns to normal in two BESTAMIN F ROLLER M D Campbell M F Ureteral Obstruction in Infancy 1m J Surg 1928 v 442

Ureteral obstructions particularly congenital stretures are not uncommon in children and may be the underlying cause of persistent urmary tract in fection with marked destruction of the kidnes. The author emphasizes the similarity of obstructive lesions of the unmary tract in children to those found in ad. its By modern urological methods they can be diagnosed clinically and treated surgically Medical measures are of value only in conjunction

with surgery for relief of the obstruction When the obstruction is recognized and treated tant the patient may be spared irreparable renal

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IOUN G CHEETHAM M D

READDED IMPETERA AND PENIS

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This article deals with the relatively uncommon form of cystitis first reported by Hunner in 1012 as clusive ulcer of the bladder The symptoms are out of all proportion to the urinary and cystoscopic findings as the ulcer may have disappeared entirely and the process may be limited to the deeper lavers of the bladder wall

The predominant and constan symptoms are urinary frequency and pain the former in many cases amounting almost to incontinence. The nain which is caused by distention of the bladder is suprapubic and usually severe and cutting in char acter. In many cases there is a history of hæma turns following overdistention of the hladder and

noted only during a single voiding A constant finding is reduction of the capacity of the bladder to between 100 and 150 e cm or less In many cases the appearance of the vesical mucosa is so little altered that if the condition were not suspected the lesion might not be found. The area of reddening varies in diameter from a few milli meters to several centimeters. If the bladder is overdistended the formerly intact mucosa covering the lesion may be the site of bleeding fissures When the urine is clear the fissures heal promptly The diagnosis is rarely very difficult. It is suggested by the history of long continued urinary frequency associated with suprapubic pain on overdistention of the bladder and becomes practically certain when there is no urmary obstruction and no patho logical elements can be found in the urine. The characteristic pathological change is a fibrosis of the submucosa The mucosa rests on a dense scirrbous laver instead of the normal loose areolar te sue When the deeper bladder layers are involved the lesson is thick walled

1 cure can be obtained only by surgical extirna tion of the lesion Recurrences may develop at the original site or elsewhere in the bladder The author employs deep fulguration under anæsthesia before resorting to more radical surgical measures Before the bladder treatment is begun all foci of infection should be eradicated CLAUDE D HOLDES VID

1918 XCI 1068 In uncomplicated cases of stone in the bladder the stone may be removed by incision or hitholapaxy Litholapaxy is contra indicated when the stone is very large and the bladder is small holding less than 125 c cm and when the nucleus of the stone is a foreigo body which cannot be crushed. It may be contra indicated also when the urethra is small but as a rule a urethral structure can be divided. In borderline cases lithologoxy should be tried before the bladder is opened BENJAMY F ROLLER M D

Hunt V C The Surgical Treatment of Malignant Tumors of the Bladder J Am W tsr road XU 1704

Ninety five per cent of malignant lesions of the bladder are epitheliomata of varying degrees of malignancy More than half are highly malignant (grades 3 of 4) irrespective of their situation Lesions of the base of the bladder tend to be more malignant than lesions of the lateral walls and dome The mortality rate of surgical procedures is de pendent upon the site of the tumor the magnitude of the operation and in lesions of the base of the bladder the method of disposing of the ureter. The mortality is lowest following the excision types of operations employed in the lateral walls and dome and highest in segmental resection for tumors of the base with re implantation of the ureter which is hardly a justifiable procedure Division and ligation of the wreter has proved the best m thod when the ureter is involved in the lesion and when the operation is performed for an extensive operable tumor of the base

A study of approximately 370 cases of epithelioma of the bladder in which curative surgical procedures were carried out indicated that the results are de pendent upon the situation of the tumor its extent and its degree of malignancy. In general irrespective of the size or situation of the tumor approximately he net cent of the patients with malignant lesions graded x or 2 are living and well three years after the operation while of those having radical opera tions for lesions graded 3 or 4 approximately 35 oer cent obtained equally good results. When the site of the growth is taken into consideration the results of surgical treatment of tumors of the lateral walls and dome are nearly twice as good as those of the base the degree of malignancy being equal Approximately 73 per cent of patients with tumors of the lateral walls or dome graded I or 2 and 42 per cent of those with tumors graded 3 or 4 are living after three or more years while so per cent of patients with tumors in the base graded r or a and 2, per cent of patients with tumors graded 3 or 4 have survived without recurrence for the same length of time

It is apparent that the merit of various surgical procedures and physical ag ats used in the treatment of malignant tumors of the bladder may be sudged and accurate results of treatment ascertained only if cases are analyzed in terms of pathology the degree of the malignancy the site of the lesion and the extent of the involvement. Not all patients can be cured but a higher percentage of good results may be obtained by surgical than by any other methods

Davis D M Epispadias In Females and Its Sur gical Treatment Surg Gynec & Obst 1918

Davis discusses the embryological origin of epis padias in the female and reviews six cuses of the condition. He classifies previous methods of treat ment as follows

r Plastic operations (a) external plastics in which the external genitalia were restored to a con detion as near normal as possible and the urethra was repaired by the excision of portions of its redun dant wall unward for a variable distance but not far enough to include the sphinciene muscle of ite bladder and (b) internal plastics in which the repair was carried upward to include the region of the internal sphincter the vesical ornice and a per tion of the anterior wall of the bladder Later the chief requirement was believed to be lengthcome and narrowing of the urethra loconed b the lo mation of a bend or Link in its course. While in many cases the immediate result was good in on tinence recurred a few neeks later after a be deare of the ordena and inflammatory reaction around the urethra

2 Reefing operations Restoration of the urethra was attempted by means of reefing sutures app) ed through the urethral walls. This method was not successful.

3 Muscle plastie operations An attempt was made to supply a new aphincteric apparatus by transplanting a voluntary muscle in the form of a ring around the urethra Good results were some times obtained

4 Torsion of the urethra Ao effort was made to bring the walls of the urethra into close at position by freeing the urethra up to its attachment to the bladder twisting it through an arc varying from 90 to 480 degrees and suturing it into place a, ain at the outer end In some cases this operation was followed by gangrene or structure of the urethra and in many cases it lailed to produce the desired result

5 Cautenzation This was not successful.

Interposition of the uterus This was done only once The vesicovaginal fascia was shortened by s reefing procedure and the patient sterilized by resec tion of the tubes There now seems no excuse for sterilizing the patient in order to cure ep. padias Transplantation of the ureters This procedure

is unnecessarily severe and radical. 8 Obliteration of the urethra and the establish

In the a th rs ment of a suprapubic fistula opinion the operation is not worthy of discussion

In the method advocated by Davis a two-stage operation the first stage is a plastic repair of the defect including (1) wide exposure of the affected areas (3) sufficient excision of excessive much amount the control of vision (3) careful suture of the latters of the defective internal sphinter muscle over the anterior aspect of the newly formed vessel onfice and (4) diversion of the urine during the period of healing by a detanage tube in the bladder. The second stage which is usually uninecessary is Demig s grantly muscle plastic operation.

GILBERT J THOMAS M D

Anderson A E Stricture of the Fernale Urethra Northwest Med 1928 XXVII 520

The author reviews the etiology, pathology symptoms and treatment of structure of the female urethar. The condition is not rare but there is considerable difference of opinion as to its moderne lafanmazions are regarded as the chief cause Trauma is also an important factor. A thorough urelocical examination should be made in all cases. The three cardinal signs of the condition are frequency urgency and dysuria. Elimination of the causative factor is necessary. Dilatation supplemented by local treatment is the only measure giving right.

GENITAL ORGANS

Nittis S Pyretotherapy In the Treatment of Gonorrhom by Inducing Aseptic Abscess New England J Med 1928 CRCIX 1041

The author has endeavored to cure refractors cause of genomical by the production of a continuous feet. A series of eleven cases were treated by 2s injection of 0 s c m of turpentine into the by 2s injection of 0 s c m of turpentine into the birth caused, the formation of an aseptic above. The complete states with the caused the formation of an aseptic above. The complete states with the caused the formation of an aseptic above. The complete states with the complete formation of the cause the was obtained in seven cause the state was obtained in seven cause the cause when the cause the creditive were less definite the creditive were less definite to the cause the cause the cause of the cause the cause of the ca

Nitts believes that in recent acute uncomplicated wrethints local conservative treatment is to be preferred to protectures causing a general reaction and incapacitating the patient for some time but that in cases with complications the production of an aseptic abscess is an excellent means of shortening

the period of incapacity and at the same time favor ably influencing the outcome of the infection

HEVER I SECTION M.D.

Young II II Medical and Surgical Problems in Prostatic Obstruction New England J Wed 19 8 exerx 850

The active part played by the trigon in mictum tion explains the trigonal hypertrophy associated with median bar prostatic growths. The muscles of the trigon become hypertrophied in their effort to pull the growth down and open the internal sphnocter.

Prostatic hypertrophy is associated with carcinoma in 10 per cent of cases. Frequently the carciaoma is not found in the enucleated prostatic mass because there has been no invasion.

The author recommends sacral or caudal anasteens for proteatine surgers. He myects a 3 per cent solution of procatin or novocain into the epidural space introducing the needle by way of the sacral notch. He states that in the radical operation complete urnary control may be preserved by anastomosing the bladder with the stump of the urethraand preserving the nerves to the triangular ligament thus keeping the external sphincter intact of twenty seveo patients upon whom the radical operation was performed by Young 63 per cent were bring and without recurrence five years after

the operation

To cases with congenital valves of the verumon
tinum associated with enlargement of the ureters
and hidronephrosis the punch operation is very
effective. For such cases Young uses a miniature
punch. Most infants with this condition are uramic
and require the same careful pre operative treat

ment as adults with obstruction

The chief factor in the mortality of prostatic obstruction is infection. In the control of infection mercurochrome injected intravenously has been found very effective. Except in full minimating cases in which large doess are given in oc em of a per cent aqueous solution per 100 lb ody weight are injected.

Retterer E end Alexandescu G The Structure of Testicular Grafts Four Lears and Flve Months Old (Structure de greffons testiculares dataot de quaite ans et canq mois) J durol méd et chir 1928 xvv 113

A Russian engineer met with an avration accident which disabled him for seven years. During the last tao years he became sexually impotent. On January 6 1924. Vornoull grafted four pieces of chimpanace testicle into the funica vaginalis. After this operation the patient was able to resume his work and his sexual function was re established. At the beginning of the fifth year his condition began to deteriorate again and on June 4, 1928, another transplantation was performed and the first grafts were removed for histological examina.

tion The transplanted pieces of testicle had somewhat decreased in size Their structure was completely changed The central part constituting the greater portion of the graft had become necrotic cortex had survived and had become vascularized for a depth of from o s to 2 mm but the original tissue was changed. In some of the tubes the epithelial hning had become reduced to a single layer of flatteoed cells Other tubes had become cords The latter were made up of several layers of cells arranged concentrically around the axis of the cord The cells consisted of cytoplasm containing several nucles (connective tissue in the first stage of development) The tubes had very fine lumina which were either totally empty or filled with detritus of epithelial cells with pyknotic nuclei. The walls of some of the tubes were made up of connective tissue in the first stage of development and those of others of connective tissue in the second stage of develop ment (fibrous) like that of the stroma between the cords and tubes. Accordingly epithelial cells of the acminiferous tubules and the intertubular tissue had not only survived in the cortex of the graft but had developed into dense connective tissue.

For surveyand to treat context we used to survey and the farsh as surveyand to the farsh as the surveyand and the flarsh must not be more than an expension that the plasma and fluids of the host may present that the plasma and fluids of the host may present that the plasma and fluids of the host may present that the throughout to assure, surveyal of the reliable until blood to the plasma and fluids of the host may present the reliable to the plasma that the plasma and the plasma an

ACDREY G MORGAN M D

MISCELLANEOUS

linman F The Surgical Treatment of Lower Tract Tuberculosis Genital and Vesical J Urol 1918 XX 521

There is a difference of opinion among urologists as to the probable site of the primary lesson in tuber closes of the genital triet. Those who contend that the primary lesson is in the epidod in the promotion in the epidod in the promotion in the epidod mechanic process after simple epidod mectomy. Those who believe that the seminal veacles and prostate are unvolved first base their assumption on the following facts.

1 Tuberculous epididemitis alone is a rare con

dition
2 Clinical evidence of tuberculosis of the seminal vesicles or prostate without disease in the epidid) mis

is more frequent
3 Symptoms of disease in the vesicles or prostate
often precede the appearance of the disease in the

epididymi
4 in every case of tuberculous epididymitithere is complete involvement of the globus minor this apparently arising as the result of extension from the urethra

5 Tuberculous lesions of the seminal vesicles and p ostate are frequently found at autopsy without lesions of the epidi lymis while lesions of the epidily mis alone are rarely found

6 When the entire genital tract is involved the lesions of the seminal vesicles and prostate appear to be more advanced

7 Lesions in the globus minor of the epilityms appear older and more advanced than those in the globus major

8 Microorganisms are repeatedly absorbed from the urethra and carried to the epididy mis

9 Tuberculous epididymitis has been produced experimentally by injuring the epididymis and then inoculating the irrethra

Hioman believes the seminal vesicles and prostate

the the primary site of the infection. There are two clinical types of g call t been loss (1) that in which the more advance or one lesion as in the pendidrum and (1) that which the sential vesicles are produced with or without epididrum to the pendidrum to a que to elsowe ket where the indication is epididrum country for 1 feet and the radical operation for 17 pc 2 in this work of the fifty-one exists recovered the rate of the fifty-one exists recovered the rate of the fifty-one exists recovered the rate of the fifty-one exists recovered to the rate of the sensible to the rate of the fifty-one exists recovered to the rate of th

In cases with active lesions elsewhere the decision as to the adva ability of surgers, and the t pe of operation must be based upon a consideration of the activity and extent of these lesions in relation to the activity and extent of the lesions in the grand

After any form of treatment the patient sho 11 be

kept under observation for a long time vesical toberculosis may remain the only active lesson after surgery, and may be so advanced as to render life inserseable because of pain frequency in incontinence. The uneteral onfice becomes can state told by the tuberculous process and progressive hydrosephrosis and renal insufficiency follow. Where there is no actual tuberculous elevater temporary rephressionsy with permanent unterorectoneological may give ceited and prolong life and prolong life.

HARRY W PLACGEMENTS ALD

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Huchler O Acute Ostcomyelitis In Childhood (Ein Beitrag zur akuten O teomyelitis des Kin desalters) Il ten med Il chnschr 1927-1928 Ivvn 1456 1400 1521 1550

Huebler has brought together a large number of facts from the literature and from a material of 378 cases of acute osteomy elitis in childhood. From the general statistics it appears that acute osteomyelitis is distinctly a disease of the growth period and as most frequent in the first and second decades of life The greatest number of patients examined were thirteen years of age. One hundred and forty two were males. In the majority of the cases the condition began in the warm season of the year clearly because of the increased opportunities for traumatic and bacterial injury afforded by outdoor occupations Staphylococcus pyogenes albus (which under suitable conditions-sunlight-easily becomes trans formed into staphylocoecus aureus) the streptococ cus the pneumoeoecus and the typhoid bacillus are known to be exciting organisms of osteomyelitis Staphylococcus aureus is found most frequently The incubation time eannot be determined exactly The average time is between twelve and forty eight

In to per cent of the cases observed and revened there was pursury unvolvement of the points. In 70 per cent the osteomy-clust was limited to a focus Metatases in the skeletal system were found in 30 per cent. The observation made by others that the course of the condition passes through several 5 ages was confirmed. In 7 per cent of the cases 1 ages was confirmed for 7 per cent of the cases primotties albuminosa could be definitely demonstrated an spite of the formation of extensive sub-pointed abscesses in the cases or open ostitus albuminosa heald will after wide increason and drainage.

Staphylococcus albus was found 15 times and stephococcus and staphylococcus progenes aureu only once each

L'unimations to determine the end result were made in rejo d'aj cases. In de, cases of osteomne its of the shaft good functional and commet results were obtained even though an 50 per cent neasurable lengthening or shortening up to 3 cm ad curvatures could be demonstrated. The end teults of uncomplicated joint the ease and of metal physical disease with articular involvement were less isorable almost op per cent of the patients pre-seuling analysis of an do contractures.

Huebler agrees with Majer as to the indications for operation. With regard to medical treatment he states that when correctly used the full vaccine

omnadin renders the clinical course of osteomivelitis milder and less complicated even though it may not cut the process short Glaessner (Z)

Mensor M. C. Isolated Tuberculosis of the Car pus—Its Diagnosis and Treatment California or Hest Med. 1928 xxix 336

The author has been able to collect from the literature only three cases of isolated inflammation of the carpal navicular hone. In only one of these was the inflammation due to tuberculosis

In the case reported in this article there was a history of trauma to the right wrist Immediately after the injury the wrist was splinted for three weeks despite negative roenigen evidence of injury Seven weeks later the pain still persisted and as the present had a history of pulmonary tuberculosis the wrist was subjected to another roentgen examination No pathological changes were noted. The application of a plaster cast for a month was with out benefit Finally four months after the injury a definite fracture line was seen in the navicular The hone was therefore removed microscopic examination and guinea pig inoculation proved it to be tuberculous After further immobili zation of the wrist for four months the patient bad perfect use of the joint and there was no evidence of spread of the infection

MICRAEL L MASON M D

Irrmann E Early Roentgen Lesions of Coxalgla and Osteochondrilts of the Illp (Les lesions radiolo iques précoces de la coxalgie et de l'ostéo chondrite de la hanche) Rev d'orthop 1928 vv 392

Irmann describes the differential signs in the reentgenograms of covalign and estecohorditis of the hip. Decalerification is about as frequent in cot align as in osterohondritis but in cosalign at its generally more marked and does not spare the epiphysis in estecohondritis with more discrete and the epiphysis in estecohondritis with conserved and the epiphysis for expensive the expensive process of the expensive process of the expensive process of the expensive process of the expensive as a good differential sign. Otherwise there is nothing characteristic in the localization of the decalcification in the two conditions.

Condensation of the epiphysis is exceptional in coxalgia but is quite frequent in osteochondritis. It is one of the most valuable differential signs

Indistinctness of the joint space is noted almost always in both occulga and osteochondritis but in covalga the head of the femur is almost always in volved while in osteochondritis it is rarely involved Narrowing of the articular space above with broadening below is frequent in covalgas but occurs usually, after the age of seven or eight years while

in o teochondritis it generally appears earlier. It is a good sign when it exists but its absence is of no significance.

Simple enlargement of the articular space is rare in covalgia and constant in osteochondritis

There is no absolute differential rosalgen sign between ostecohondrists and carsign before the beginning of fragmentation and flattening of the gunning of fragmentation and flattening of the physical center of cossification but condensation of this nucleus with flattening and atrophy and enlargement of the articular space suggest to techno dritis particularly when they are as ocated and in agreement with the clinical samptions. The roent regent in cases with well not very extractionary except in cases with well not very extractionary except in cases with well not very extraction of the control of th

AUDREY G MORGAN M D

Glacobbe C Therapeutic Pneumarstrosis In Intra Articular I esions of the Ance (II pneumaritor terapeutica nelle lesson endoastecolars del juncchio) Chir d organs di monmento 1918 U1 433

Hemarthrosis is a common sequela of intraartically telescope of the kinesteen state of the articalty telescope of the conservation of the the fair poly, partial distains and bone fragents of the fair poly, partial distains and bone fragents of faction of the semilator cartilage of the kines conditions classed by English and Freeb surgeons as internal derangements of the kine I not design on of these levious roentigen rise examinations of great and especially after the injection of air into the some

fo a report before the Third International Congress of Military Medicine in Pars in 1925 Carcia stated that the injection of Dakin a solution into the knee joint in traumatic hamarthrosis was curative becaute of the pneumarthrosis which resulted from the pressure of gas formed within the joint and

closed the small bleeding points

In the period from May 1926 to December 1927, the author applied Cacca s method in fifty cases of harmathrosis hydrokamathrosis and traumatic hydrathrosis of the kine. The first thirty cases were treated in the first surgical section of the Cebo Hospital and the others in the Military Hospital in

Florence (Jacobbe believes that pneumarthrosis should be induced systematically and immediately in all cases of effusion of blood or setum in the kine after tearing unless there is a true osseous lesion. In cases of effusion with a true osseous lesion and ha at fract in of the patella or a fracture of the lower end of the femur only paracentesis of the joint should be

done
for the induction of pre-imarthrosis the skin is
disinfected with a 5 per cent alcoholic solution of
picric acid the effusion in the joint is emptied as

much as possible by means of a large needle the joint is washed out with a tept solution of result, prepared Dakins solution or settle salt's limin and filtered an which can be considered strick is injected to fill the joint. The lavage of the joint naw be done with the mouth apparatus employed no pneumothorax or with a large graduated glass yatinge with a needle attacked to nibber tuling yatinge with a needle attacked to nibber tuling injection is made in the tupper outer angle of the injection is made in the tupper outer angle of the patellia.

The quantity of air injected is about equal to be amount of fluid withdrawn from the joint or in gauged by the distention of the joint or the joint of the joint of the joint of the joint of the injection and way exposure in two places is made at once. This gives certain diagnostic distinct of the property of the triangle of the property of the prop

of the injection in this article.

After the injection the limb is put in a metalic splant but the next day the splint is removed an assaing of the quadraceps and careful progression of the control of the point is begin when the same of the point is begin when there is no control and coursed as the other than the control of the injection on second when there is no control of the course of the same of the point positions of the point position of the point position of the point position problems of the point position publication of the position publication publication publi

The earlier this treatment is given the better the results because when it is applied soon after the righty it still prevent the elotting and degoes too diagres of blood in the approval recesses of the state on the street concluded blood irritates the 3-powrs and prolongs the process by leadings to a secondary serous extuals with the development of a high drobs marking to Transist toon of congulated blood in the recesses leads to the formation of florous afteriors noduces and or better

synoval linges
In contisoon and simple distortion of the lare
joint the texuals are best when the treatment is two
method the first twenty four hours. In ca e treatearly the hemsarthro is rarel re forms and dithe joint is usually not required been at the look
has not yet coagulated been at the look
has not yet coagulated been at the look
has not yet coagulated been on the day after the
made too of the pneumatthross and walking is be
guin early to prevent atrophy of the qu duceps an'
to basten the complete return of function

Good results may be obtained also when the treat ment is not given multi four or five days after the n jury hut under such circumstance boos talustion of from thurty to such circumstance boos talustion times the point tapping must be repeated in cases not treated until a neck after the tearing the results are less satisface o y

Giacobbe draws the following conclusions

r Cassia's method of pneumarthrosis is ab o-

lutely harmless
2 It is easy to use

3 The results are better the earlier it is used

4 By means of joint lavage with Dakin a solution septic complications symoutis fibrous hyper plass and recurrent hydrarthrosis may be avoided 5 Massage and early mobilization prevent at rophy and its consequences KELOGG SPEED M D

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

kirschner M. Operative Immobilization in Ver tebral Tuberculosis (Die wirbelversteilende Operation bei Wirbeltuberkulose). Zischr. f. Tuberk 1928 i. 196

On the basis of the results obtained in 100 cases of tuberculous spondulitis. Airschner recommends of tuberculous spondulitis Airschner recommends will be a sinkly operation for immobilization of the vertex as method which will permit the patient to resume his occupation in a relatively short time even without the prolonged wearing of a supporting corest. Although in most of the cases reviewed the patient was obliged to leave the chinc after a hiref-stay and to resume his work, after a few months complete healing was obtained in about 50 per cent. It restricts one review treatment, healing is obtained in only 10 rt 14 per cent.

The bone inlay should include three vertehræ above and three below the diseased vertebra. After the operation the patient should be kept in hed for three weeks and if possible should wear a support ing corset for a year.

Ainchner emphasizes the economic importance of the operation but recommends it also for patients in good financial circumstances because it shorten the penod of convalescence Sievers (Z)

Lenormant C and Wilmoth P Total Resection of the Tiblotarsal Joint (La ré ection tiblo tarsienne totale) J de ch r 19 8 xxvii 257

Ollier defined tibiotarsal resection as simultaneous removal of the lower ends of the tibia and fibula and of the astragalus This operation has to a great ex tent heen given up and the terms tibiotarsal resec tion and astragalectomy are considered synons mous The authors review the history of the true tibiotarsal resection since the operation was first done by Moreau in 1702 They believe that tibio tursal resection has still very definite indications in infected fractures of the joint and in tuberculosis In tuberculosis of the ankle st does not replace astrag alectoms but is indicated in cases in which the latter operation is insufficient the tuberculosis being very extensive and involving the external and in ternal malleoli and the roof of the joint The typical total tibiotarsal resection gives good results only il the surrounding soft parts are not too much invaded When the invasion of the soft parts is extensive resection must be performed. There is also a group of cases between those in which astragalectomy is in heated and those in which amputation is neces sury in which total tibiotarsal resection is extremely useful Two such cases are reported. The results were good in both

The first step of the operation consists in an external meason for astragalectomy, and removal of the astragalus. The second step is the removal of the malleol. After the removal of the astragalus the foot remains attached to the leg only by the soft parts. It is then displaced innarial so that the malleol project through the incision and can be sawed off The wound is explored and any fininges are re-

It has been claimed that this operation results in flail foot but it does not if extreme care is taken in adjusting the hones of the leg to the tarsus. The hones should rest on the anterior part of the upper surface of the calcaneum in contact with the scaph old The two cases reported illustrate this point In the first one in which this adjustment was made the functional result was perfect in the second the result was not so good because the bones of the leg rested larther back on the posterior part of the cal caneum and there was a large empty space between them and the scaphoid To maintain the desired position a plaster cast should be applied. The cast should have an opening through which the wound can be watched. The bones may be fixed by a metal wire but suffice is not necessary AUDREY G MORGAS M D

JONES O BIOKON BI D

FRACTURES AND DISLOCATIONS Patterson R H The Internal Fixation of Fractures and Dislocations by the Use of the Human

Fascial Stature Ant Surg 1918 [Uxxvii 879]
Patterson states that he has used factoal sutures
for internal fixation with excellent results in fourteer
cases of bone and point injuries. He reporteer
cases in detail. The conditions in these five cases
were an ununted fracture of the right humerus an
unsatisfactoral, reduced fracture of the thin com
plicated by two fractures of the fibula an unsatis
factority reduced fracture of both bones of the fore
arm a dislocation of the clavicle with separation of
the acromoclavicular joint and a fracture of the
clavele. Patter Convox MTD.

Raydin I S and Morrison M F Ossification After Fracture An Experimental Study trek Surg 1928 xvn 813

Raydn and Morrison studied the healing of frac tures of the radius in young normal dogs which had heen given 20 cm of cod liver oil daily dogs whose serum calcium was raised by the administration of parathyroid extract (Colley) and dogs whose serum calcium level was lowered by thyroparathyroidec toms.

From their findings they conclude that no single lactor is the cause of the majority of case of non union. In one instance, the non-union may be due to the interposition of soft parts in another to in sufficiency of the holod supply at the site of fracture due to injury or the location of the fracture in another to insufficiency of the inorganic constituents of the blood. They believe that although a deficient inorganic phosphorus or calcum content may be the cause of abnormal or faulty ossification in the growing bone and in certain bone dyseramas, this factor is a rare one in clinical cases of hon union of fracture is a rare one in clinical cases of hon union of fracture.

Putti V Statistical Research on Joint Fractures Complete Statistics on the Fractures Treated at the Rizzoll Institute in the Period from 1890 to 1926 (Ricerche statistiche sulle Institute artico lan Statistica complessiva delle frature cirate dill Institute Rizzoli 1809 1920) Chir d organi di uson inchia 1928 yil 1920.

In the period from 1809 to 1926 2 732 fractures were treated at the Rizzoli Institute Bologua Eleven hundred and fifty two (42 10 p r cent) in volved joints

Six hundred and seventy six (24.74 per cent) of the fractures involving joints occurred in the upper limb and 476 (17.05 per cent) in the lower limb

Of the joint fractures in the upper limb 162 (50 g per cent) involved the upper capphysis of the himmers 326 (680 per cent) the above and 186 (680 per cent) the wints Of the joint fractures in the lower limb 242 (85 per cent) involved the neck of the femur 44 (161 per cent) the knee and 190 (69 per cent) the malleon)

The 2 732 fractures were of the following types

| | P r | | P |
|------------------------------------------------|--------------------------------|--------------------------------------|-----------------------------------------------------|
| S If cit e % il Face Ci vid St m m d b % nulls | Gracti | SI fly t Not it d Neckelf m | C + s t t 80 6 8 4 86 3 4 4 8 8 3 3 7 6 |
| t bran | 34 3 1 4 33 1 4 103 3 94 | ÿıı Lek | 20 61 |
| H ther | 103 4 34 | Fort M h pi fact e | 6 3 83 54 97 |
| E M | 3 8 4 | | |

KELLOGO SPEED M D

Zanoli R Fractures of the Upper End of the Humerus (Fratture dell epi6 1 supernore dell one 10) Chir d organi ai mosmichi 1918 zu 445 In the period from 1800 to 1926 162 fractures of the paper end of the humerus were treated at the

the upper end of the humerus were treated at the Rizzol institut Bolgan Six (7) per cent) were fractures of the head of the humerus x (x per cent) uncomplexed fractures of the surposition of the (0) per cent of the surposition of the complexed for per cent to the surposition of the complexed detechnents y (8 per cent) populsed detections (18 per cent) populsed the persect tuberosity and 40 (90 per cent) fractures of the greater tuberosity and 40 (90 per cent) fractures of the greater tuberosity with displacement of the shoulder

One hundred and sixteen (716 per tent) of the patients were males. The incidence of the fractures at different ages is shown in a table. Eighty fac an I eight tenths per cent of the fractures resulted from

direct violence such as that sustained in a fall on the shoulder. A few were caused by a fall on the elbon or hand

X ray examination showed that 2 of the 6 frac tures of the head of the humerus were incomplete and 4 were comminuted

In both of the cases of fricture of the anatomical neck of the humerus the fracture plane was oblique and so I it was dentate

and is 11 was contain.

Of the 3s cases of fracture of the surgical neck.
Yary study was possible nonly 11 no present histories was transverse and impacted and ny it was oblique. In 16 cases of transverse fracture there was oblique. In 16 cases of transverse fracture there was oblique. In 16 cases of transverse fracture the displacement. In 17 the displacement and not bord and I neglected and in production. In the case there was a displacement. In 7 case there was a first fracture with displacement. In 7 case there was a displacement of the greater tuberout; in addition to the fracture of the cases.

dislocation of the head of the humerus the dislocation was primary and the fracture secondary. In a the dislocation was subglenoid and with subcorace in In a cases with subglenoid dislocation and in the 6 cases of subcoracord dislocation the fracture of the surgicial neck was transverse. In 6 cases the great tuberosity was pulled off.

In 3 of the 5 cases of epiphy seal separat on there
was displacement

Of the 3 isolated fractures of the greater tuber ostly 2 were partial and 2 was complied. This level is usually found as a complicat on of fracture of the surgices neck of the humerus or dislocation of the shoulder.

There were no open fractures. Twelve cales showed multiple fractures. Vascular and nerve lessons were rare. In a case there was paralysis of the radial nerve and in a case paralysis of the brach all plant associated with a vascular lesson.

In 824 per cent of the cases non operative trest ment was given Paster-of Pasts or uses we used for all recent fractures showing little displacment. The arm was immobilized at our in his abduction outward rotation and a slightly furnal position. In cases with displacement of fragments the treatment was elastic traction or reduction under

auxisthesia with N ra control. The period of ammobilisation ranged from rariby to thirty dairs. It is easier open operation and done for vicious sumous when traction into done operation was done as the result of the properties o

sphysis placed in the glenoid

Of 113 patients to whom an inquiry was ent 72 replied Thirty nine reported the result as very good

25 as good 6 as fair and 4 as poor The results of non-operative and operative treat

ment were about equally good

RELLOGG SPEED M D

Camurati M Fractures of the Elbow (Fratture del

gomito) Chir d organi di movime no 1928 un 452 Camurati reviews 328 fractures of the elbow which were treated at the Rizzoli Institute Bologna in the period from 1800 to 1926. He groups them as follows

| Type (| Ca. | P t g f til mi | Rec at | OLI |
|----------------------------------------------------------------------------|----------|-----------------------------------|----------|----------|
| 5 p acondylend Olt: 1 d31 Of the loo d31 Of p trochl 5 p acon d31 sd d pai | 5 37 | \$1 4 5 24 28 7 9 6 7 | 3 9 | 5 8 |
| p non dylad diget emodylad Frihad p t Oth d d k f j Of been | 7 | 5 79 5 79 | , | * |
| Of tp oc | <u> </u> | 16 | <u> </u> | <u> </u> |

Two hundred and eighteen of the patients were make. The fractures were most frequent between the ages of five and ten years and 170 of them were to the night said. One hundred and ninety nine (80 f) per cent) were caused by indirect violence and \$5 (17.37 per cent) by direct violence. Of the 111 supracondyloid fractures \$3 (7.410 per cent) have extension and 90 (5 80 per cent) by discussed by we extension and 90 (5 80 per cent) by

The primary complications of fractures of the slow see bursting of the skin usually in the sate cubital ares vascular lesions nerve lesions and displications.

Bursting of the skin occurred in 2 of the cases re

Mewed herve lesions are most frequent in supracondy loid fractures and are caused either directly by the trauma or indirectly by a bone fragment Complete nerve severance is rare. In the only instance of such an injury in the cases reviewed the radial nerve was involved Incomplete nerve lesions due to slight laceration or contusion are much more common than complete lesions In the cases reviewed a primary herve lesion was found in 20 (6 og per cent) In r.s the radial nerve was involved alone and in 4 the median nerve alone In both the radial and me dian nerves were injured. Ten of the radial nerve lesions and the 2 lesions involving both the radial and the median nerve resulted from supracondyloid fractures caused by extension resulting in antero external displacement of the disphyseal fragment of the humerus The 4 other lesions of the radial nerve followed fractures of the external condule and the 4 lesions of the median nerve followed supracondyloid fractures caused by extension with antero internal displacement of the humeral diaphysis

Forty (12 10 per cent) of the fractures reviewed were complicated by dislocations

The secondary complications of fractures of the elbow are ulceration of the skin or soft parts severe vascular fesions nerve lesions and ossification

In 2 of the cases reviewed delayed ulnar palsy developed. One case was that of a man twenty four years old in whom the symptoms of palsy were first noted nineteen years after a fracture of the capitel fum humer.

Ossification occurred in 67 (0.42 per cent) of the cases reviewed. In 27 it followed a supracondyloid fracture and in 26 of these the fracture was complicated by dislocation.

In general the treatment was based on the type and spe of the fracture. In cases of recent fracture with no displacement of the fragments a plaster of lars splint was applied with the forearm acutelyfexed and supnated for from five to eight days and it the end of that time physiotherapy was given. Recent fractures with displacement of fragments were reduced under ether narcosis by manupulation with longitudinal fraction flexion counter extension and fateral fraction under V-ray control.

Fractures of the external and internal condyles and of the epicondyles with great displacement of the fragments in which manipulation failed to effect reduction were subjected to open operation with simple replacement and the use of a fibroperiosteal or wire suture. All fractures of the olectanon with separation of fragments were operated upon.

After operation or manual reduction a posterior moulded plaster splint was applied with the forearm in flexion except in cases of fracture of the oberanon. The period of immobilization ranged from eight to fifteen days.

The majority of old fractures were treated by phisotherspy. Open operation was reserved for cases in which a deforming callus interfered with the function of the elbow. When bony snkylosis was present arthroplasit was done with the use of free transplants of fasces. Frumary here leading were transplants of fasces from the construction in all cases. In cases of secondary nerve lesions mere metallicity and the construction in all cases. In cases of secondary nerve lesions necessarily as a construction of the construction in all cases.

Two hundred and surts patients were traced for at east ax months after the treatment. Very good results were obtained in 150 cases (61.15 per cent)—in 155 following closed reduction and in 24.5 following operation. Good results were obtained in 66 cases (65.5 per cent)—38 with closed reduction and 25 with operation. Vair result was obtained in 18 cases (60.5 per cent)—3 with treatment 8 treated by closed reduction and otreated by operation. The result was poor in 4 cases (1.5 per cent) 3.0 which were operated upon and 10 which was not treated to the closed reduction and 10 which was not treated to the contract of the result was poor in 4 cases (1.5 per cent) 3.0 which were operated upon and 10 which was not treated to the contract of the co

Soldi A Fractures of the Wrist (Fratture del polso) Chir d rgani di mor mento 1928 xii 466

Solds reviews 186 fractures of the wrist which were treated at the Rizzoli Institute Bologna These

constituted 6 8 per cent of all fractures Sixty two and nine tenths per cent of the pritents were males. The fractures vere rost common between the eleenth and fifteenth and the forty sixth and fifteeth years of ac.

The fractures for which teenfgrongsman are averal able were of the following types insenters of the lower end of the radius xxx (puta attendar y arterias; ys) fractures of the lone read of the dina 6 (suchited 5 associated with fracture of carpal hones; y epphysical separations of the radius and ulma, 8 fractures of the lower end of the radius and ulma, 8 fractures of the proximal row of carpal hones; 4 fol seminant bone above; you can be about the carpain and which will be a seminant bone above; you can be abo

One hundred and fifty the of the fractures of the west resulted from indirect violence usually a full and o were caused by direct violence (2 cases of back

fire injuries)

verve complications were rare. In the case of a five veat oid boy who fell about x if and sustained an epiphiscal separation of the right radius and almowith fracture of the ulnar styloid the median and ulnar nerves were lacetated.

The treatment was as follows

r Fractures seen at once or within a few days after the accident Reduction under ether aims thesia immobilization for from ten to eighteen days in a circular plaster cast extending from the elbon to the ends of the meticarpy il bones physiotherspy

2 Fractures treated in other hospital of at the

patient's home. Physiotheraps

3 Fractures treated surgically. In this group there wer, it cases with deformity. Osteotomy of the radius was done in a not simple removal of excess callus in 3. In a case of fracture of the semidunar hone with pain persisting for ten months the bone was removed.

In the 94 cases (34 6 per cent of the total number), which were followed up the result was very good in 6 (27 36 per cent) good in 37 (38 04 per cent) fair in 28 (29 47 per cent) and poor in 31 (31 5 per cent). The c patient with a fracture of the zemiulour bone vino was operated upon had a good sesult. Two others refused operation.

The author's conclusions may be summarized as follows

- 1 Most feactures of the west are of the justs art cular (Pouteau Colles) type (In the cases re seemed the ir cidence of such fractures was 40 86 per cent)
- 2 The incidence of joint fractures in the cases re sieved was 27 68 per cent
- 3 The principal cause of fracti es of the wrist is indirect violence
- A For recent frictures of the wisst manapulative reduction is the treatment of chance. Operation should be reserved for old fractures with malposition.

5 Fractures of the scaphord semulunar are best treated by operative removal of the fractured bone France Spare MD

Describt J A Case of Avuision of the Spinous Process of a Cervical Vertebra (Un card anathement dune apoptyse épaneur ed une vertebre ter vicale) Res doritor 1028 x 414.

The case reported was that of a truck driver fifty one years of ale who was thrown from his seat on the truck to the ground striking his occiput with his chin flexed. When the patient entered the hospetal immediately after the sendent he compained of pain in the occuput and was unable to move his head forward more than 20 degrees without plic Extension also was painful but was a little less lumsted Rotation and lateral inclination of the head were not associated with pain Pressure rauler pain over the spinous processes of the 'o' rih ar! fifth cervical vertebrae and a roentgenogram bowed that the spinous process of the fourth cervical teric bes h d been broken off. The detached fragment had descended about 1 cm and touched the upper border of the fifth spinous process. The roentgene gram showed also a general opacity of the lym phatic glands of the neck on both sides o t to tuberculous adenitis which the patient had had a

the age of thenty one years

The functional disturbances due to the leads
of the spinous process were too few to necess tale
active treatment

AUDES G Monois M D

Mutel and Delong Irreducibility Due to the later position of Soft Parts in Congenital Delection of the Illy (Lincottohitte par riterosi ton d in lutation congenitale de la banthe) har derthop 128 227 227 255

Irreducibility of the di located hip may be duely absence of the roof of the activabilian satelarian of the neck of the femur or the interpoint of soft parts. The first two conditions can be slown by rocatigen err mination. In cases with interpoint of soft parts a cushing between the point is noted on a stemplist a residue. The activation of soft parts a cushing the control of t

In the authors, opened, the best toro on bot that is made between the percentines and the addite tors. As this stream is at a distance from the percent of the stream is a distance from the percent of the stream is a distance from the feet of the stream is a distance from the percent of the stream is a distance from the peak of the femula when the hip is extended it is very near to a time the position of forced abstraction used for reduction of the stream is the position of forced abstraction used for reduction of the stream is the peak of the stream is the peak of the stream is the stream in the peak of the stream is the stream in the peak of the stream is the stream in the stream in the stream is the stream in the stream in the stream in the stream is the stream in the stream in the stream is the stream in the stream in the stream is the stream in the stream in the stream in the stream is the stream in the stream in the stream in the stream is the stream in the stream in the stream in the stream is the stream in the stream in the stream in the stream in the stream is the stream in the strea

artery and the tendon of the adductors At the bottom of the space between the pectineus and ad ductors the tendon of the psoas can be seen This is pushed aside and the retracted part of the capsule AUDREY G MORGAN M D exposed and excised

Hass J The Lorenz Forking Procedure and Its Field of Application (Die Lorenzsche Gabelung und thre Anwendungsgebiete) Ergebn d Chir u Orthop 1928 XXI 457

In order to obtain firm bony union of the two frac ture fragments an oblique frontal osteotomy from behind forward and unward is now done instead of the formerly used transverse or sagittal osteotomy of Hass. The osteotomy must not be too steep and should always be done at the level of the acetabular region. The middle point of the plane in which the osteotomy is done should be on a level with the center of the acetabulum. The abduction should be at an angle of from 20 to 40 degrees. Sometimes tenotomy of the adductors is necessary The plaster cast is applied in the position of medium abduction slight extension and slight inward rotation with the knee in slight flexion. After four weeks lateral hinge joints are built in at the knee in order to allow movement of these joints. After six neeks, the patient is allowed to get up and to walk with crutches Only after three months is the cast removed A few days after the operation the position of the shaft of the femur should he determined by roentgenograms

in order that it may be improved il necessary This operation is indicated chiefly for congenital luxations of the lateral or posterior type which are marked and loose and cause pain but should be done only alter all attempts at ameliorating the symp toms by conservative measures have failed In path olomeal luxations of the hip it is often the only pro tedure by which the condition may be improved It may he considered also for paralytic and traumatic dislocations which have become irreducible and is of great value in cases of pseudarthrosis of the neck of the femur especially the relaxed type. It is recom mended also for dislocating coxa vara and aithritis deformans. In tuberculous covitis in the acute stage it should be performed only when good results and

absolute harmlessness are assured After citing a series of favorable operative results reported by others the author reviews those ob tained in , 6 of 105 of his own cases in which a follow up examination was made. In 53 per cent the result was good in 28 per cent satisfactor, and in 19 per cent unsatisfactory The best results were ob tained in umlateral congenital dislocations of the hip In cases of bilateral an I pathological luxations a good result was obtained in only 40 and 43 per cent respectively and in pseudarthrosis of the fem oral neck in only 27 per cent. The remaining cases were too few to allow any definite conclusions regarding them Failures were due to improper po sition of the fragments especially slipping of the distal fragment anteriorly over the pubic bone which frequently causes long continued pain the

shipping of the proximal fragment which negatives every operative result too great abduction and limitation of mobility Such results are caused by errors in the technique of the operation ERLACHER (Z)

Fractures of the Neck of the Femur Dusi E (Fratture del collo del femore) Chir d organi di moumento 1928 x11 473

In the period from 1800 to October 1 1926 24 fractures of the neck of the femur were treated at the Rizzoli Institute Bologna These constituted 19 16 per cent of all fractures of the lower limb and 64 4 per cent of all fractures of the femur

One hundred and thirty six (56 29 per cent) of the patients were males. Senile osteoporosis advanced age and falls of the aged are given as causes but the fractures occurred also in young persons

According to Delbet's classification 30 per cent ol the fractures were subcapital 355 per cent transcervical 21 per cent cervicotrochanteric and

13 5 per cent intertrochanteric

Of of recent fractures 45 were in the true neck of the femur and SI were cervicotrochanteric Fifteen cervical and 5 cervicotrochanteric fractures occurred in persons under forty years of age

Ninety six cases were treated by non operative

measures and 40 by operation In the non operative treatment, the patient was kept in bed for a few days with the application of weight and extension to hold the leg in abduction of about 20 or 30 degrees and with transverse traction to bring about internal rotation Counter extension was applied by means of a foot piece against the sound foot and a cotton roller about the root of the sound thigh which was fastened to the head of the bed In addition the foot of the bed was raised

When the roentgenogram showed proper reduction a plaster of Paris cast including the whole pelvis was applied with the leg in slight abduction and internal rotation. When there was great separa tion of the fragments traction was applied on a fracture bed following the induction of anasthesia Three or four days after this immobilization the pa tient was made to get up and move about on crutches daily the exercise being gradually increased By this method the time in bed was sbortened pulmon ary complications were avoided and better osteo genesis and consolidation were obtained

The ambulatory immobilization was continued for from six to eight months with roentgenographic con trol of the amount of callus formed months if all went well the plaster dressing was bivalved or replaced by a bivalved dressing so that physiotherapy could be given

The operative procedures included the use of a beef bone peg or a metal screw. In cases of rather recent fracture in which coaptation of the fragments could be secured by simple external pressure on the limh or the roentgenogram showed only slight sepa ration of the fragments or on account of the pa tient's age or some other factor a prolonged opera

tion was to be avoided the pegging was done with our arthrotromy on the hip. Local aparthesia was induced in an area around the greater trochanter of the femur about 8 cm wide and the bone peg was introduced by guides into the head of the femur The whole limb and the pelvis were then enessed in plaster of Paris while the patient go on the fracture table with the leg abducted and rotated inward

In 8 of the 12 cases in which a metal screw was used an arthrotomy on the hip was done because of the wide displacement of the fragments the age of the fracture and the vicious position of the fee

To perform arthrotomy a lateral antero-external incision was made in the bip through the astrorius and fascia lata. The fracture site was then sought all interposed tassue was removed and the fracture was reduced by traction rotation and abduction. The screw was involuced to the head of the femultary of the screw was involuced to the head of the femultary of the screw was involuced to the head of the femultary of the screw was involuced to the head of the femultary of the screw was involuced to the head of the femultary of the screw was involved in the screw of the screw was involved to the screw of the screw

chanter and the whole limb then enclosed in plaster
In 4 cases an autogenous bone peg from the tibia
was used In 3 of these in which the fracture was

old arthrotom, on the hip was done
Osteotomy was reserved for cases of old fracture
with great displacement of the Iragments or with
bending of the femoral next. According to the re
quirements of the particular case the osteotomy was
linear oblique subtrochastene or intertochastene
In a fen instances an effort was made to pull the next
fragment down to the level of the head fragment by

skeletal traction applied through the os calcis In a few cases in which the roenigenogram showed considerable absorption of calcium salts with ah sorption of the neck a reconstruction operation was

performed
The results were considered excellent when there was no pain and little or no shortening the joint had a full range of movement and the patient was able to return to his former occupation. They were considered good when there was only high the considered good when there was only high the patient as activities were almost normal. They were considered fair when the use of a crine was necessary and the patient is ability to work was reduced. They were considered fair when the use of a true was necessary and the patient is ability to work was reduced. They were considered poor when the patient was Jame and unable to do heavy now it the movement in the high point was greatly reduced or entirely abolished and the joint was painful. The results of non-operative and operative treatment were as Jolions.

TABLE I -RESULTS IN 96 CASES FOLLOWING NOV

| OPERATIVE TREATMENT | | | | | | |
|----------------------------------------|-----|--------|-----|------|----|-------|
| | - | Res it | | | | |
| Nat r f fract | \ \ | Poo_ | Eau | Gund | 14 | De th |
| Tenso k l R t t Oli Ce cot o- | 3 | 3 | 0 | : | • | 1 |
| chat a Recet Old | 4, | 3 | 5 | 4 | , | |
| | | | | | | |

TABLE II — RESULTS IN 40 CASAS FOLLOWING OPERATIVE TREATMENT

| Nt t pe teo | 10 | Res II | | | | | |
|-----------------------------|----|--------|----|------|-------|-------|--|
| | | Poor | F | Goal | Extel | De th | |
| B peg Screw A pl t bo | 15 | • | \$ | 6 | , | | |
| Per R nit ctren | 3 | ١. | , | ļ | , | ۰ | |
| Usteot my | 6 | ï | | | | | |

The author concludes that in the cases of ag day tents and when proper care is not of laved too he excellent results can be obtained by non-operative treatment. In home pegging without arthorous, or the high the operative trauma is minimal but as it not always possible to determine the position of the largaments exactly by \(\text{Tay Continue the position of the properties of the properties of the properties of the may be directed incorrectly so that it fails in utiper

The value of the autoplastic bone peg in sum ulating osteogenesis is doubtful

KELLOGG SPEED MD

Zanoli R Fractures Involving the Knee (Fishing d) ginoculus) Chir d organi di monimini 1915

x1 383

Zanoli sevenes fort; four fractures of the keet.
Thatteen (20 54 per eard) sere fractures of the levet and of the feature and thirty one (104 52 features) were fractures of the upper end of the third of the features of the upper end of the third of the features of the upper end of the third of the condition of the categories of the ca

the metaphysis
Four of the five bicondylar fractures resulted
from indirect violence due to a fail on the flexic
knee the force acting by pressure and interact
flexion of the leg. One was the result of torsion Time
monocondylar fractures were caused by false of th
flexed knee fails from a height direct violence on
the condule and torsion.

The fractures may be of the 1 or 1 form with fragment separation or simply narrow festire. In fractures of one condition the cruzial liganeith usually hold the fragment close in or may aid in its rotation. Gross deformities are shown either by a varus or a vulgus position of the knee depend as upon which condite is fractured.

"In the so called paracellular fractures of the true lea a small fragment of the medial surface of the femoral trochles as broken off. The author report two cases in detail. When the leg is femoral to patella may also since the detect the limitation of fection of the leg and joint edition. The bory greatest may remain loose in the joint or become at tached. It so one cases it may cause joint locking is. entering the intercondyloid space or penetrating be neath the patella Cases seen early may be treated by prolonged immobilization but in late cases ar throtomy on the knee for removal of the fragment is necessary

The author reports a fracture of the median epi condule of the femus due to a fall of about 3 it while the knee was in a marked valgus position and another due to twisting of the leg When the roent genogram made immediately after the injury shows the edge of the small fragment to be dentate there can be little doubt of the occurrence of fracture As a rule the treatment indicated is simply physic therapy but in a few cases open operation may be required for suturing of the tendon insertion into the adductor tubercle or for the repair of lacerated

lateral ligaments of the knee Fractures of the tuberosities of the tibia are most common in young adult males and most frequently involve the external tuberosity. They are not truly ance joint fractures but they enter and involve the knee Indirect violence such as a fall on the foot with compression of the head of the tibia is the most fre quent cause The position of the leg at the time of the trauma whether valgus or varus determines which tuberosity will be injured. The author be heves that most fractures of the external tuberos ity are vertical while those of the internal tuber otity are oblique. In fractures of the internal

tuberosity the tibial spine is frequently involved In fractures of both tuberosities compression is evidenced by penetration of the proximal fragments into the shaft of the tibia. The displacement of fragments is not great and is often angular. It is in

creased when the head of the fibula is broken In discussing fractures of the tubercle of the tibia the author reports the case of a man sixty years of age In this instance the loose fragment could be felt and there was pain on joint motion especially on extension Bilateral fractures of the tubercle of the tibia occur more frequently in males than in fe males Up to the age of twenty five years the ma jonty are epiphy seal separations. The mechanism is a sudden forceful contraction of the quadriceps or forced flexion of the leg. The principal symptoms are pain localized over the tubercle and ahnormal mobility of a bony fragment at the insertion of the patellar tendon into the tibia There may be also a joint effusion. The degree of interference with extension of the leg depends upon whether the frac ture is complete or partial The condition must not be confused with Osgood Schlatter disease of this tophysis In the case reported by the author sim ple aspiration of the swelling relieved the pun which hallasted a year

Two cases of fracture of the spine of the tibia are cited The whole interglenoid spine or only the me dian or lateral spine may be disrupted. In some in stances the fracture is combined with fracture of the tuberosities of the tibia. The mechanism is probably a sudden extreme rotation of the leg on the thigh exceeding normal limits which causes a

tearing out of the spine by the powerful crucial liga ments This theory is supported by the fact that most isolated fractures of the tibial spines involve the median spine into which the anterior crucial ligament is inserted. The treatment usually indicated is immobilization followed by physiotherapy but if the symptoms persist surgical exposure of the knee joint may be necessary

KELLOGG SPEED M D

365

Fractures of the Malieoli (Fratture Faldini G malleolari) Chir d organi di movimento 1928 xii SOF

In the period from 1896 to 1926 190 fractures of the malleoli were treated at the Rizzoli Institute Bologna These constituted 6 os per cent of all fractures and 16 per cent of all fractures of the leg The greater number of the patients were between twenty and thirty years of age and 66 8 per cent were males

The cause of the fracture was direct violence in 36 56 per cent of the cases a fall from a height in 23 8 per cent adduction and supination in 23 13 per cent abduction and pronation in 14 8 per cent and torsion in 1 4 per cent

Of the 113 fractures which were studied with the ray 31 (27 4 per cent) involved 1 malleolus-13 (11 5 per cent) the tibial malleolus and 18 (15 19 per cent) the fibular malleolus 43 (37 9 per cent) were bimalleolar fractures-22 (10 4 per cent without and 21 (18 5 per cent) with displacement of fragments 34 were Dupuytren's fractures-15 (13 a per cent without and 10 (r6 7 per cent) with displacement of fragments and 5 (4 or per cent) were supramalleolar

Many of these fractures were complicated by le sions of the soft parts, and some of them were open fractures Other frequent complications were frac tures of the tarsus and leg

The 82 recent fractures were treated by non operative measures. In 69 cases manual reduction was effected under ether anasthesia with \ ray con trol either before or immediately after the applica tion of a plaster of Paris dressing. The plaster dressing extended from the lower third of the thigh and encircled the leg which was flexed at about 30 degrees and all of the foot The position of the foot during immobilization was generally strong supina tion which in most cases controlled the displace ment of the fragments The immobilization was continued for from twenty five to forty days the pa tient then being allowed to walk but not to bear weight Seventeen cases with involvement of only one malleolus and no separation of the fragments were cured by ambulatory treatment. Seven cases required prolonged confinement to bed and skin traction on the leg In 5 cases a light celluloid splint was applied after removal of the plaster and m s case skeletal traction was applied through the os

The results were excellent in 27 cases good in 25 fair in a and poor in r

The author concludes that for recent fractures of the malleol: reduction and immobilization by non

operative methods is the treatment of choice
One hundred and eight fractures of the malleoli
were old Of 102 cases reviewed the principal com

were old. Of 101 cases reviewed the principal complaint was pes valgus in 46 (4) 1 per cent) rigidity and pain in 38 (37 2 per cent) pes varus in 9 (8 8 per cent) pes equinus in 7 (6 9 per cent) and fistula in 2 (10 per cent)

The treatment in the cases of old fracture was open operation in 25 cases the application of n

plaster dressing in 14 and physiotherapy in 61 le 8 cases no treatment was given

The results were excellent in q cases good in to

fair in 30 and poor in q

Physiotherapy was employed only in cases with good position of the fragments or only slight alteration of the joint surface. The application of air heated to from 110 to 120 degrees I was followed by massage and functional re-education In a small percentage of the cases a metal airch support was used. Extract STRIP WID

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Lemann 1 V Coronary Occlusion in Buerger s
Disease (Thrombo Anglitis Obliterans) Am
J M Sc 19 8 cirvo 807

Lemann deplores the naucity of autopsy reports in the literature on Buerger's disease and urges that all autopsy findings in this condition be recorded even when the death did not occur until a number of years after the amputation of the affected limb He believes that the underlying causative agent of thrombo angutis obliterans may predispose the vessels of the other parts of the body to other forms of disease particularly arteriosclerosis. In three of five autopsies on cases of thrombo angutis Lemann noted an affection of the coronary arteries Because of the possible relationship of thrombo angutis obliterans to arteriosclerosis and the predisposition of victims of Buerger's disease to involvement of centrally located vessels he believes that further studies of these centrally located arteries is of the ENIL C ROBITSHER MD greatest importance

Brooks B Bialock A and Johnson G S Ligation of the Terminal Abdominal Aorta An Experimental Study 1rch Surg 1928 xvii 794

Alter occlusion of the abdominal aorta the cardiac output is decreased and there is little if any change in the blood pressure in the artery provingal to the occlusion. Immediately after the occlusion there is a transfer of the blood volume from the distal to the proumal aspect of the obstruction

The fact that the blood pressure in the base of the state is the saleral by the relatively great changes in the condition of the peripheral circula in which must follow the occlusion of so large a wind of the sale of the s

HOWARD A MCKNIGHT M D

Cotton Cornwall V and Ponder C W Exten sive Pulmonary Embolism Following Fracture Br t M J 1028 in 280

The case reported was that of a woman who en tred the hospital with a fracture of the left thins and fibula. The leg as factor in plaster of Farmal following the potential additionant the process of the same than a destination and the same than a destination and the same than a destination who was not a trained morse. When the leg was eramined by one of the authors six weeks after the acculent union appeared perfect and there was no shortcamp of the leg. The ankle and leg showed molerater ucleane but there was no variously of the

superficial veins. The ankle and knee which were stiff were foreibh moved through a few degrees the muse was instructed how to massage and move walk on crutches. She stated that she felt ill but no cause for illness could be discovered and she did not appear and it was reported that the sickness creased the same day.

At midday two days later the patient requested to be helped out of bed but almost immediately alterward she wanted to return and had hardly been helped bask when she gave a slight groan rolled onto her right side and then rolled onto her

back and expired

At autopsy the neck appeared unduly movable but the cervical vertebra were normal. No fracture of the cranial bones could be found. The brain and abdominal viscera were also normal. The dia phragm was contracted. The lungs appeared normal but did not fill the thorax. The heart was

contracted and appeared normal

combacted and applicate temoved and dissection of When the right ventricle and pulmonary,
aftery were opened a long clot about the size of the
lumen of the internal lune vent was found. This
had evidently become folded so that two ends were
passing into the right branch and two into the left
branch of the pulmonary artery obstructing the
flow of blood to the lungs and easing sudden death.
The clot could not be extracted by traction. There
was also a free end pointing to the pulmonary valve.
When the clot originally reached the heart it must
have been several inches long.

Noteworthy features of this case were

r The lack of proper massage and movement hich favored stass of the blood

2 The absence of evidence of thrombophlebitis before the embolism occurred

3 The length of time the patient lived pre sumably with the large foreign body moving about in the heart the only symptom being a vague illness

4 The remarkable size of the clot

John J Maloney M D

Petispierre 1. Embolectomy on Arteries of the Extremitles Collective Review and Report of Twelve New Cases (Veber Lmbolektome der I vitemitatenarierne und ein liestrag von 12 Faellen) Deutsche Zucht f Chr. 1262 CCM. 184

A briel account of the history of embolectomy is followed by a statistical review of 118 cases of this operation from the literature and a detailed report of 12 cases from the Swiss record

The site of primary thrombosis is to be sought in either the arterial or the venous system (peradomical embolism) The basic disease is usually acute or chronic endocarditis arteriosclerosis syphilis or myocarditis Operations as causes come second infectious diseases third Other causes are parture tion and abortion

The embolus may become anchored at the hi furcation of an artery or impacted in its lumen. At the site of the embolus there is frequently a local spism of the vessel probably due to traumatic irri tation of the nerves of the adventites and the nenarterial plexus from distention of the vessel wall The sudden pain may be similarly explained

Embolus of an artery of an extremity is but one of a series of embol: A secondary thrombosis develops at a point peripheral or central to the embolis-Conditions are not favorable for the formation of a collateral circulation

The statistics show that embolism is more common in women than in men and in persons beyond middle abe than in young persons. The sudden very severe pain is characteristic. Sooner or later cir. culatory disturbances are manifested by such signs as paræsthesias formication and a furry sensation Sensibility and motility decrease. The extremity becomes pale in some areas and cyanotic or marbled with blue in others General symptoms such as dysproga cyanosis and a feeling of anxiety are not infrequently mentioned

In the diffe ential diagnosis acute transverse myelitis and hamatomyelia threatened gangrene on an arteriosclerotic or diabetic basis gangrene from frostbite and above all thrombo angirtis obliterans must be considered Raynaud a disease and inter mittent claudication have a slower course

In the localization of the embolism which is difficult the behavior of the pulse and the extent of the circulatory disturbances are of importance Palpation and sensitiveness to pressure are of aid only when the artery lies near the surface primary pain of the embolism suggests the location of the embolus only when it is characteristic Emboli are found most frequently where the subscapular artery branches off from the axillary artery at the bifurcation of the brachial arters at the bifurcation of the aorta at the point where the profunds branches off from the common that and in the poplitea. When the lumen of the aorta is completely occluded the symptoms are bilateral Wh a the embolus is situated deeper the hants of the circulators disturbances change accordingly

The only treatment is embolectoms II possible this should be done under local or spinal anasthesia The removal of the embolus may be effected by the direct o the retrograde route. If in the latter method it is impossible to mobilize the embolis he stroking with the finger at may be removed with Merke's embolus extractor a corkscrew like instru ment with a blunt tip

The outcome of the condition depends chiefly on the basic disease. It is influenced also considerably

by the extent of the secondary thrombosis ar i this in turn depend upon the time that elapses between the occurrence of the embolism and the operation, The importance of early operation is therefore apparent When the patient comes to operation within the first ten hours the prognosis is excellent It has been shown that the results of embolectomy are best in cases of emboli of the upper extremities less favorable in those of emboli of the liver extremities and poorest in those of emboy of the sorta and the iliac arteries According to the author's collected statistics clinical cure results in 47 per cent

Summing up the author comes to the conclusion that in spite of the severity of the basic disease and the difficulties in the localization of the embolus and the operative technique embolectomy frequently promises success in early cases and is northy of wider recognition H ECKER (Z)

BLOOD TRANSFUSION

Postoperative Changes in the Blood and Their Importance in the Bevelopment of Thrombosis (Postoperative Blutversenderes et und thre Bedeutung fuer die Entstehung der Throm bose) D nische Zische f Chi 1918 ccz, tit

The author attempts to show that of the three chief causes of postoperative and spontageous thrombosis-slowing of the blood stream a ch no in the vessel wall and alteration in the blood itself -the last is the most important and determines the two others Following a review of the l terature on postoperative blood changes he reports the results of his own investigations

Heusser demo strated that in the first da saft of operation there is a hypoproteinemia with a relative increase in globulin and an increase in the viscoity quotient. He found al o that the fibrinogen content increases during the first postoperative days and then slowly falls and that the lability of the plama and the sedimentation rate of the erythrocytes are increased The postoperative blood changes increase the agglutinative power of the blood platelets and the precipitation of fibrin and thereb the tendency toward coagulation This was demonstrated in tests with pig serum in which precipitation was found to run parallel with the increased rate of sedimentation of the crythrocytes

The statistics of the University Surgical Clinic at Basel show that 30 per cent of all thromboses occur us cases of unflammatory diseases and tumors con ditions which lead to pronounced alterations in the blood tuncreased sedimentation rate of the enth rocates etc)

In marantic thrombosis slowing of the circulation of the blood plays the ch of role whereas in purely inflammators thrombosis at the site of the in flammation the most important factor is the change in the walls of the blood vessels and in port operative thrombosis it is the change in the character

of the blood

No distinction is made between thrombous and cogulation. In thrombus formation the author seconds a perticular kind of intravascular cogulation in which there is usually it ransformation of the flood plasms into the state of gel followed by the flood plastices to the vessel wall and later a visible precipitation of fibrin. The frequency of thrombus formation in infectious processes at a distance from the focus of inflammation is due to undergo thrombus in the possible that there changes in the blood take place also as a consequence of changing which would explain the increase in the changes of the thrombous with increased years in which the blood also gross old (Carea; in which the flood also gross old (Carea; in which the flood also gross old (Carea; in which the blood also gross old (Carea; in

RUDDE (Z)

lield I W and Goldbloom A A Fundamental Principles Governing the Clinical Interpretation of Hæmatological Diseases Med Clin V im 1918 21 211

The authors have covered the entire field of hamatological diseases mainly from the clinical standpoint though the basic conceptions are con sidered more or less exhaustively They state that the term blood disease is not altogether satis factory as it does not designate the organ or organs at fault. Morphological changes in the blood may be purely functional and unaspeciated with any changes in the hæmatopoietie system differing thus from the changes occurring in organic conditions in which the blood forming organs return to their embryonic functions. The elements of the blood may vary normally though the white cells are more susceptible to changes than the red cells appears to be a normal variation of the white cells during the day after meals during pregnancy and during labor There are numerous factors which may account for these variations but it is certain that overproduction in the bone marrow is not a cause As applied to conditions affecting the erythro

poste system the term regeneration is a mis nomer The process is not one of repair but rather a disease mechanism producing unripe short lived

The authors classify the anamias into one groups as follows (1) hemorrhagic (2) carcinomatous (3) néctious and parassitir (3) alimentars (5) erythogetic diseases which include perraneous anamia bermolt the interest of the control o

In angual due to chrome hermorthage the reduction of hermoglobin and the teproductive processin the hone marrow are not so marked as in the cause hamorthage. Bleeding from an evolutional states gives rise to less anamia than bleeding from a micros surface. Anamia due to carcinomia may be present in cross of the so cilled cacheric type of Cartinomia, without active humorthige such as

excal carcinoma with incompetence of the ideo creal value. In cases of bleeding carcinoma the anzema is particularly marked if the condition affects the gistro intestinal canal. When bothe marros, mediastases are present the blood picture of permicious anzema may be found. Some carci nomatis so affect the bone marrow as to cause the same nuture in the absence of bone metastases.

same pacture in the absence of bone metastases.

Of the infections which are likely to give rise to marked anarma: in many of which the site of the melection is not apparent until after death the authors discuss particularly harmatogenous infections of the kidney, subphrene abserses indocarditis and cholecustitis due to the streptococcus viridans become prostatic absects pulmonary absects and infections of the sinuses and teeth. Acute syphilis and malaria may give itse to severe secondary.

The authors agree with Minot Murphy and Sabin that pernicious animia is best explained on the basis of some constitutional inferiority of the er thropoetic system in which there is an endo genous vitamine di turbance which prevents the red cell from maturing or exposes them to early de struction The chief value of the liver diet seems to he in its power to mobilize vitamines played by achylia is not clear but it seems impos sible to di regard the constitutional factors sides the usual blood findings the authors have noted the erythrokonten described by Schilling These are rod shaped intracellular bodies demon strable by a special technique with a Nile blue sulphate stain The increased icterus index in the serum and the marked increase of urobilin in the

urine are important findings
Lolveytharmia is probably due to failure on the
part of the spleen to destroy red blood cells a
hypothesis which fits in with the absence of urobilin

from the urine and the lowered icterus index The leukamias are discussed particularly from the clinical standpoint. The acute lymphatic type may be difficult to diagnose if it is seen in the aleukæmie or subleukæmie stage though a leuco parma with from 70 to 80 per cent small is imphocytes is diagnostic Chronic infectious mononucleosis must not be confused with acute leukarmia lymphatic leukæmia is easily diagnosed as a rule but an acute infection may change the blood picture temporarily to that of an ordinary leucocytosis Acute myeloblastic leukæmia may be confused with thrombocy topenic purpura particularly in the more acute forms Chronic myeloid leukæmia produces the largest spleen of any of the splenomegalies and although the white count is usually very high there may be times when there is only a moderate increase and only the differential count is conclusive

Splenomegalic anamia is characterized by en largement of the spleen secondary anamia leuco cytosi or leucopania and a relative diminution in the blood platelets. There is slight tendency toward harmorrhage and slight or no enlargement of the superficial glands. Cases of Bantis syndrome are

best divided into two groups. (3) those in which the etiology is clear (thrombophletius of the splean or portal veins primary. Liennees cirrhouss bees or inheritables, and (2) those funishers, and (3) those funishers, with no evident citological factor which the authors prefer to cell primary. Blants syndrome Gauchers splenomegals is of insidious onset and chronic course. Unlargement of the spleen may be present for a long time before weakness pain in the left hypochondrum, and himorrhages from the mucosa and skin lead the pitient to consult a physician.

Hodgluns di case has a considerably more faorable prognosis than lormerly because of its present-day treatment with radium and the roent goa cass. If a cases in which the superficial glands are not enlarged the diagnosis may be difficult When the spinal cord is pressed upon by enlarged glands a diagnosis of cord tumor may be made The Pels Lewdon temperature curve my suggest

tuberculosis

Thrombocytopenic purputs may be acute or chronic, sweec or nuld. In the full ministive type the history and the body surfaces feeer marked reduction in the platelets and anoma are striking. The pathogenesis is not clear it seems that the platelets produced are of inferior quality and are easily destroyed by the spleen and other cells of the reticulo endotheial switch. After removal of the spleen in platelets have a better moved of the spleen in platelets have a better

chance to mature Treatment is discussed at length. Secondary anamins are treated by rest fluids and blood trans fusion. In some instances of gastric hamorrhage due to ulcer lavage may empty the stomach of clots and atop the bleeding by allowing the organ to contract. In less acute cases some form of iron therapy is of value The dictary treatment of pernicious anamia is given at length Splenectoms is of value in congenital hamolytic icterus Banti s di ease (if done early) and Gaucher's disease. In acute and severe cases of thrombocy top raic pur pura splenectomy should not be delayed too long In mild cases a vitamine rich diet iron and calciam will lead to improvement Polycythamia is best treated symptomatically. The use of drugs su h as benzel toluylendramın and phenylhy The acute leukarmas are drazin is dangero s amenable to no treatment but the chronic forms are benefited temporarily by roentgen therapy There is no satisfactory treatment for Hodgkin's MICHAEL L MASON MD disease

Goldstein E Schoenlein Henoch's Furpura Report of a Case with a Review of the Litera ture Med Clin N Am 19 8 xii 809

Cold tem reports a case of Schoenlem Henoch's purpura in a man fity two years of age which ended latally after a course of shiptily over four months. There had been engagatine pain without nausea or comitting for over three months when the left knee and later the left ankle became swellen and painful

and a hissh purple eruption appeared on the mersurface of both legs. After the pt at stades, or to the hospital the abdominal symptom increased vomiting occurred and the board movements to came brownish and stringy. The blood shored changes of secondary anema. The Vassemman less was negative and the spottern was negative for tuberede bacilli. Urnally six showed althorius. Vir, examination of the gastico intestinal tract is valid as seen of partial obstruction. The patient became entically all and died during a transfusion Autopas showed a perfortation of the cream and severalities.

in the intestine elsewhere Schoenlein Henoch's purpura appears to be a condition of the blood capillaries in which these ses els are dilated, lengthened and distorted The whole clinical picture may be explained by the action of a toxic substance of food or batterial origin histamin or a histamin like body on the capillary bed In some respects the condition re sembles an anaphylactic reaction. There may be lesions in the skin such as purpure spots wheals ery thema or necrosis. In the gastro intestinal tract there may be lesions requiring surgical intervention such as ulcers and necrosis leading to perforation Intussusception is not very infrequent Swell p and pain in the joints follow hemorrhage into the joint capsule and synovia The kidners may safer particularly severely with a transient albuminum an acute nephritis with terminal uramia or a chronic nephritia with secondary cardiova. what changes There is nothing characteristic about the blood picture

The condition is most common in females and in the second decade of life. It differs both charaand be-matologically from thrombuc, topanic purpura

The prognosis is usually good but the gaveintestinal or renal complications may prove it. It must be remembered that surgical interestina may be indicated in case of infussusception of proforation of the bowel.

LYMPH GLANDS AND LYMPHATIC VESSELS

knapper C Chylangloma and Chyle Fistular of the Lower Limbs and External Genial Organs (Ueber da Chyla grom und de Chi fisteln der und 1 n U'dmassen und der aeu sein Geschlechtsorgane) lick f klin Chi 1928 d

Anapper reports the case of a five year old how a whom the hyle had made its var from the client chief as the populated has the populated has the contract of the contract of

The author draws the following conclusions

In the circulatory region of the lumbar trunk there occurs a deviation from the normal which might be called a chylangioma diffusum There is marked dilatation of the lymph vessels and the system of valves functions poorly or not at all so that the chyle is able to penetrate into the nathological lymph yessel region.

2 It is uncertain whether this abnormality is a dilatation or a neoplasm of the lymph vessels Stasis of chile in the region of the thoracic duct

does not play a role

Chincally there is swelling of the legs and the external genital organs (elephantiasis) shows rupturing vellowish white vesicles which dis charge chyle and a chyle fistula develops which

often threatens lile 4 The treatment indicated is interruption of the

direct connection between the thoracic duct and the perpheral lymph vessel system by laparotomy 5 A similar anomaly has been seen in the region

of the cervical trunk The condition probably occurs also in the subclavicular trunk and the other afferent lymph vessels of the thoracic duct

Gow_A E Some Disorders of the Lymph Glands Beil M J 1028 11 972

The author reviews the anatomy and physiology of the general lymphatic system and discusses the significance of lymph node enlargement in different portions of the body

Local enlargements are usually the result of a local infection conveyed by the lymphatics trilling wound may be the portal of entry In some cases local enlargement of glands in the neck may be metastatic from an internal carcinoma or the beginn

ing of Hodgkin's disease

beneralized enlargement may indicate an infec tious disease such as rubella or syphilis or a condi tion such as acute lymphatie leukamia. The patient with chrome lymphatic leukiemia may consult the physician for a swelling on one side of the neck A blood examination will differentiate this condition from splenomyelogenous leukæmra. In lymphosar come the glandulur groups tend to be unequal in size rather hard and definitely fixed to the deeper structures The author reports a case of this type in a noman of twenty years which was apparently

cured by 1 ray urradiation The author describes in detail the usual picture ol Hodgkin's di case and urges surgeons to send

material from cases of this disease to St Bartho

lomen's Hospital London where a special investiga tion of the condition is being carried on WILLIAM | PICKETT M D

Coles W B End Results in Hodgkin's Disease and Lymphotarcoma 1: Su g 1928 terrent

Coley states that in his opinion lymphosarcoma and Hodgkin's disease which are usually regarded as distinct conditions are quite closely alhed

etiologically and bear such a close resemblance to each other that in some instances it is impossible to differentiate them either clinically or histologically While typical Hodgkin's disease can be differen trated from typical lymphosarcoma there are atypical cases which may be considered either as distinct processes with a distinct etiology or as variations of a single disease. Coley therefore agrees with Minot and Isaacs who include them all in a general group to which they have given the name

lymphoblastoma The systemic nature of Hodgkin's disease has been recognized by many since Gowers described the lesions as involving not only the lymph nodes and spleen but also the skin intermuscular tissues bones brain soft palate pharynx tonsils ceso phagus stomach intestines pancreas peritoneum thyroid thymus traches lungs pleura disphragm perseardium heart muscle suprarenals kidneys testes and ovaries Recently attention has been called to the fact that the disease involves the nervous system and the skeletal system cases of Hodgkin's disease Ginsburg found involve ment of the nervous system in 10 (27 7 per cent) Hodglin's disease of the bone marrow has long been recognized Ziegler in 1911 stated that from 30 to 40 per cent of all cases of Hodglin a disease show hone marrow involvement while Symmets believes that the hone marrow is involved in every ease. Only recently however has it been recognized that in eertain cases of Hodgkin a disease very definite metastatic tumors of the bone may be found. Coles has had cases of direct invasion of skeletal hone In r oI these there was involvement of the frontal and occipital bones All of the lesions disappeared under treatment with large daily doses of the Coles

With regard to the clinical manifestations of Hodgkin's disease the author states that as a rule an enlarged gland appears on one side of the neck and soon thereafter there is enlargement of other glands on the same side A few neeks or months later similar enlarged glands appear on the other side of the neck and still later in the avilla and groin Not infrequently the spleen or liver or both are enlarged. The glands are freely movable and seldom fused They are firm but less hard than a carcinomatous gland and less soft than a lympho sarcoma. In a number of cases especially after generalization has occurred there may be an

irregular temperature as high as 102 to 103 degrees F and lasting for weeks There is nothing of diag nostic value in the blood findings but in the later stages of the disease there is usually a severe and progressive aniemia

Coley believes that Hodgkin's disease and lymphosarcoma are infectious processes and that all carcinomata and sarcomata are due to the irritation of an infectious agent

There is no record of a spontaneous cure of Hodgkin's disease The duration of the condition varies in different cases and may be modified by the type of treatment. The effect of treatment gradually dimmishes but life has been definitely prolonged by drugs such as arsenic and by the reentgen rays, radium, and the texture of breillus produzious and erysinelas.

produgious and erypited a series of 173 cases treated with radium. In the myority radium alone was used. One hundred and ten of the pittents died from the disease. Of a group of 28 sho were classed as clinically cured 2 died from one policy nine years after the first observation. The average duration of high in this group was any ears and there months.

Stone summarizes his report of 200 cases treated

with radium and the \ray as follows

The \ray and radium are only pulltative

agents in the treatment of Hodgkin's absence 2 Palliation can be accomplished in 60 per cent of the cases and complete restoration of health with or without complete regression of the tumors may result in about 32 per cent

Restoration of health will often last for a year

and rarely two three or four years
4 Palliation if it is to follow will begin after the
first or second treatment

5 Life may be prolonged one or two years
Desigrding and Ford of the Mayo Clinic in re

Designations and Ford of the Mayo Clinic in reviewing the end results in 135 cases also noted pulliation from \ ray and radium treatment. The value of surgery in Hodgkin's disease and

lymphosarcoma has not as yet been definitely established. Many have found as has Coley that early removal of isolated growths followed by ir reduction or the use of toruss has definitely prolonged life.

When multiple glandular enlargements are present or generalization of the disease has occurred ir radiation cannot be effective. In such cases Colev uses the towns of er, supelas and bacillus produpous Of the patients treated with towns alone 10 per cent recovered and remained well for from three to

Coley reports several cases in which surprising results were obtained with his toxins

In the last thirteen years he has had 58 cases of h mphosarcoma and 30 cases of Hodgkin's di case Of the 30 patients with Hodgkin's disease only remained well for more than three years and one of these died in the fourth year. Of the patients with lymphosarcoma 6 remained well for from three to ten sears Of 19 who remained well for from five to twenty two years 16 were treated with toxins alone and 3 with towns and the \ rays Better results were obtained in a previous series (before 1014) when surgery and towns were used Coley helieves that the less favorable results obtained in the more recent series may be accounted for by the fact that when they first came under observation most of the nationts in the second series were in a much lat i stage of the disease the condition having become widely generalized and having been pieviously treated by radiation

In conclusion Coley says that lymphosarcoma and Hodgkin's disease should no longer be regarded as absolutely hopeless. The tumors are u unily radiosensitive and are responsive also to treatment with mixed toxins of erasipelas and bacillus prodigiosis It seems logical to use the combined treatment thereby securing the local effect of radiation (radium or \ ray) and the systemic effect of the towns which have the power to reach hidden and remote glands beyond the reach of radiation. The treatment hould be lept up periodically for a number of years In from 10 to 15 per cent of the cases of lea t five years In typical Hodgkin's disease the prognous to still very unfavorable and permanent control can be expected in only a very small number MANUEL I LICHTENSTEIN MD of eases

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Binger M W Judd E S Moore A B and Wilder R M Oxygen in the Treatment of Postoperative Bronchopneumonia Arch Surg 1948 XVII 1947

Observations made in og cases of postoperative preumons in most of which the diagnosis was confirmed by reentgenograms strongly inducate that the oxygen used in their treatment resulted in the saving of hie The oxygen was administered by means of the Barach Roth tent. The results were best when the treatment was given early

In experiments on guinca pigs pneumonia was produced by the intratracheal injection of relatively brings streptococci. Treatment with oxygen immediately alter operation was found to reduce the mortality so per cent

In a group of surgical cases in which there was reason to fear the development of postoperative pulmonary complications oxygen treatment was started immediately after the operation. The in cidence of pulmonary infection in this group was practically nil.

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Allen A W and Wright I S The Bacterieldal Properties of the Solution Ileaviresoreinolis I 1 000) | 1rcl Surg 1928 | 1938 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948 | 1948

In May 1037 Leonard and Ferter described a new anistentic luquor new trescribentis 1 a coo known as S I 37. This anticeptic is a practically colories which doudses knowld fluid with a sweetish taste which totatians 1 mgm of crystalline hers/resorcinel per club centimeter of solvent consisting of 30 per cent byten and 70 per cent water. It is claimed to be statemed at 0 whole bacterial usupersions in fil ten second or less non toxic non irritating chemically stable bacteriodal in high dilution very Penetrating non cortosive mon stanzing and free from disspreadable ofor

It has the lowest surface tension combined with the greatest bactericial action of any of the many alkalmized resorroin denvatives in various solvent solutions that were investigated. Its name signifies a solution with a surface tension of 37 dynes per tentimeter.

It is not effectively bretericidal for breillus pyocyaneus within forty-eight hours but destroys the staphylococcus aureus within ninety minutes and the streptococcus hamolyticus in less than fifteen minutes. It is stable and active in the squadflux by McKeyfert V D.

Howers McKeyfert V D.

Rice T B Baeterlophage in Suppurative Conditions J Indiana State if iss 1928 xxx 509

The author reports the results of the use of bac terophage filtrates in 150 clinical cases. Among the conditions represented were carbuneles and boils all of which showed definite improvement after the first application. In most cases relief was quite prompt. Early boils regressed later ones became liquid and discharged the core. The bacteriophage was applied locally or injected into the tissues around the boil.

In cases of staphy lococcus cellulits the pain ceased promptly and marked improvement was noted in them to four hours. In cases of ostcomyelits the results differed. If necrotic bone was present its removal was necessary hefore the treatment caused much benefit. Bed sores were treated with the bac tenophage filtrates with marked success. In certain cases the sores were healed although the patient died of the primary lesion. The hacteriophage has no effect upon the body cells. Closure of the wound must depend upon the presence of healthy granula tion itssue.

In cases of leg ulcers the treatment caused prompt exessation of the foul discharge and the appearance of healthy granulations Suppurating wounds also responded very favorably. In fact the more pus there was in the wound the better results. This was true also in cases of aboxecs cavity Of eleven cases of appendiceal aboxecs the only one that failed to respond to the treatment was that of a patient who was moribund and showed cannosis of the lips and faigner ups. Two patients with staphicoccus and faigner ups. Two patients with staphicoccus have been treated sometimes with success and some times with always and some times with always.

The bacterophage is effective in all staphylo coccus lesions if there is no bone involvement and the blood stream is not invaded. The stock preparation seems just as effective as the bacteriophage prepared against an autogenous culture. Efforts are being made to have the material manufactured in sufficient opanity for general distribution.

WILLIAM J PICKETT M D

ANÆSTHESIA

Hornor A P and Gardenier C \ A Means of Intercepting Explosions in Anæsthetics Anes & tual 1928 vii 372

The authors report attempts to eliminate the huzard of explosion in the use of gas anaesthetics. Whost of the work was done with ethylene. The object was to dispose of the gas expired by the patient in such a way that vapors leaving the face mask were neither inflammable nor explosive when

mixed with air or oxygen. Attempts were made to tail and not the ethylene as it left the mask to chain and and or the ethylene as the first the mask to take the chemical reaction with the gas as it left the mask and to diulte the gas after its expraison of the proof as utschaftery. The solution of the problem by proof assistanciary. The solution of the problem was found to be interception of the explosion he tween the point of origin and the patient. The requires extreme rapidity of action by the intercept image medium as eitheline explosions attain a mig medium as eitheline explosions attain a milles per second.

is no mechanical check valve can act with such speed the explosion itself was used as the force for the check valve. The authors constructed a cylin drical tube days led into two chambers by a partition a portion of which was made up of two very thin disphragms separated by a layer of fluid Attached to the lower diaphragm was a valve which could be seated in 1/5 000 of a second \ coil led from the upper to the lower chambers When an explosion occurred at the upper end of the cylinder a fine mesh screen dissipated some of the explosive force while the remainder ruptured the lower diaphragm thus shutting off the valve to the outlet In the meantime the burning gas was traveling from the upper chamber of the cylinder to the lower by way of the coil but as the valve had already been closed no propagation of explosion could be trans mitted through the outlet

I mask incorporating the same principles is suggested for practical use

GEORGE R Mc VULLET M D

Romberger F T Clinical Studies and Chemical Analyses of Rebreathed Virtures Analyses of Rebreathed Virtures Analyses of Re

The experiments reported in this stude are begun by endeavoring to keep a patient alera by using only his own rebreathed gaves and adding on gen as needed. As this attempt was secured, at furnished a starting point for determination of the percentage of sicularly breathed gas minused in the big and for a comparison of this percentage and the percentage of gas fed with the clinical distinction.

In the first experiment the rebreathing was coninued for twenty three minutes without nitrosoude and the carbon droude in the bag tose to to per cent. The annesthesia differed from the ordnary mitrous-oude oxygen annesthesia as tacte was extreme punkness of the skin with profuse prespiration a cargot pulse and accelerated respiration

In Case 2 without rebreathing no accumulation of carbon dioxide developed in the long tubing. In Case 3 in which a rebreathing bag with an adjusted expiratory valve was used 5 per cent tax

bon diovide was found in the breating the In Case 4 the anasthesia was induced with introus oxide and ethylene in equal parts but analyses of the breathing bag showed mirrors such to per cent and ethylene 63 per cent this fact but cating that nitrous oxide is the more absorbable.

In Case 5 40 per cent carbon dioxide was given to determine whether auch a high percentage inismable produces dilutation of the pupil and a sistionary epidall but only 31 per cent could be re-avered from the bag George R McActur M.D.

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Sear II R Osteitis Fibrosa and Osteitis Defor

The author holds that osteits fibrosis and osteits deformant tend to merge into one another and cites the opinion of other authorities regarding this point lite believes that these conditions are unusually common in Australia. He has seen over 100 cases of osteits deferments.

The essential histological features are (1) disspectance of the original bone (2) the substitution of a vascular connective tissue for the original bone and its intertrabecular marrow and (3) the formation of new hone from this connective tissue

Amous classifications adopted are given Roentgeongraphically Sear classifies the aub groups of outents fibrous as (1) solitary Cysts with own without trabeculation (2) multiple Cysts (3) a somewhat cystic condition sometimes involving one bone sometimes many which on the one hand approaches the Cyst either single or multiple and on the other passes, through varying degrees of edeciderous until it approaches more closely the type of below seen in oscietus deformans (4) a condition characterized by a finely stoppled pitted or traited appearance found most commonly in the jaws. Each of these groups is described in detail and their differences from lessons resembling them

are cited. The third type especially appears strongly allied to ottens deformans. The author states that all towards he as near seen the woolly offsecularity typical of osterits deformans in osterits fabroas has sobered cases of the former with no or at a pical skill changes and others have reported similar charges in cases of osterits fibroa.

ADDITION HANTLAC M D

Burrows M T Jorstad L II and Ernst E C
The Chemical and Biological Changes Induced
by the Y Rays in Body Tissues Podiology 1928
x

The authors state that the \ rays not only destroy canter cells but may induce cancer. Camer may be induced alone to coult are not other hipods solvents. This phop how coult are not other hipods solvents. This phop how coult are not other hipods solvents from the balance of victamies in the body. In superiment, so the balance of victamies in the body. In superiment, so the superiment is considerable times the victamies alone succumbed to the var unreal to th

In the treatment of cancer with the \ rays both the ran er cell and the surrounding tissues are affected. One of the effects of the \ rays on the

tissues seems to be the removal of the normal lipoid content. This action may be the chief factor in the destructive action of the X-rays on the cancer tissue.

PUR C COLONY M D

Mintram J C The Action of Radiation on the Blood Supply of Tumors Lancet 1928 cerv 969

Mottram described a series of experiments per formed upon various tumor grafts both in vitro and in tito which indicate that quickly growing tumors are more radio sensitive in ti o than slowly growing tumors whereas in vitro both types of tumor have the same radioesensitivity.

He cyplans this by the effect of radiation upon the blood supply In quickly growing tumors the cells are abundantly and closely packed around the blood vessels without any intervening supportive tissue. Accordingly the swelling of the cells follow ing radiation produces greater occlusion of the blood vessels thereby more effectively reducing the nounable of the tumor and more rapidly

In radiosensitivity the amount of supportive tissue is more important than the rate of growth of the tumor Charles II Heacock M D

RADIUM

Forssell G Therapeutic Methods and Results at Radiumhemmet Brit J Radiol 1928 1 374

Forssell briefly describes the organization of Radiumhemmer at Stockholm and reviews the results obtained at that institution in which cancers and tumors are treated principally with radium The hospital was founded in 1910 and is supported by the government At first only inoperable tumors were treated with radium. Later as the result of improvement in the technique radium irradiation was used in borderline cases and today an ever increasing number of operable cases are treated with radium or a combination of radium and surgery Such treatment is given most frequently for cuta neous cancer cancer of the lip uterus the rord oral cavity and vulva and certain sarcomata Breast cancer is treated by surgery alone whenever nos sible otherwise by surgery and radiotherapy cancers of the digestive tract are treated surgically if they are operable

The permanency of healing under radiological treatment has been sufficiently tested only in cases of cancer of the face lip oral cavity and uterus and sarroma

Of 207 cutaneous cancers of the face 142 (63 per cent) have remained healed over a period of ten years. If only the operable cases are considered the incidence of absolute cure was 78 per cent In cases of cancer of the lip a cure was obtained in 68 per cent of the whole number and 86 per cent of those which were operable

In cases of cancer of the mouth a five year cure was obtained with radium in 18 per cent of the total number and 31 per cent of those in which the lesson was primary in the mouth burgery and radio therapy gave a five year cure in 60 per cent of the cases.

cased in good cases of cancer of the cervix absolute heal ing was obtained in 224 per cent of the total number. If only operable and boutierl c cases are considered the incidence of five year healing was 42 per cent. In the incoperable cases a five year cure resulted in 167 per cent. In the cases of cancer control to the object the uterus absolute healing resulted in 43 per cent of these which were open cent of the c

Of 543 patients treated for sarcoma one third were free from aym toms three years later Of 38 patients with primary tumors who were treated with radium only 24 per cent remained free from symptoms Of 151 pritients with sarcoma who were treated with surgery and radium two third have

remained free from 5) mptoms

remainen tree trom 33 mptoms.

It has been found that in cases of tumor in which there is a fair chance of obtaining beating by radium randiction the duration of the healing so obtained is in every way compatible with that obtained by radium the healing so obtained is in every way compatible with that obtained by radium the healing so obtained as the healing so obtained as the healing so obtained to the healing so obtained to the healing so obtained to the healing so obtained by surgery. The period of latenet is much the same after both types of treatment. Recurrences usually appear during the first and second years. After the first has decord years. After the first and second years when the correct second sears when the period of the period of the healing with the healing with the period of the period

Primary healing was obtained in 1914 (38 per cent) of 440 cases. In the 150 cases remaining after exclusion of those representing the most favorable and the most unfavorable forms of can cer the incidence of primary local healing was 0.

per cent Of 3 354 cases in which the treatment consisted of radium irradiation alone primary leaf bealing was obtained in 1714 (57 per cent) In the most favorable cases the incidence of primary bealing a raped from 60 to 90 per cent.

A. James Lareny M.D.

Lacassagne A The Direct and Indirect Action of Radiation on Cancer Tissues Redicing 19 8 20 393

The effects of radiation on the tissues have been

The effects of radiation on the tissues have been attributed to (1) a direct action (2) an indirect action and (3) an indirect general action

By direct action is meant a disturbance of equilibrium within the molecular arrangement of the cell which results in the death of the cell

By indirect action is meant changes brought about in the radiated zone such as circulatory disturbances and sclerosis which affect the nounal ment of the cells

ment of the cells

By 'indirect general action is meant the liberation into the circulation of a toxin or hormone winds
serves to simulate certain general organic restions

The author discusses these three theores and the various experiments in min arem to support the second and third. He believes that as regards thir reaction to destructive doses of radiation cancer cells should be placed in the same class as normal tissue.

A comparison of the statistics published from the

principal clinics in which local destructive doses are given exclusively and those in which the attempt is made to obtain both direct and indirect action dos

not favor the latter method

If he author emphases that in the destruction of expedition cells by radiation the importance of recordance cells by radiation the importance of preserving the normal taske must be borne a mind. The chief requirement for successful realis series to he the administration to all of the cases cells of the strongest dose which is compatible with the integrity of healthy thissue.

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Martin W and Shore B R Juvenile Gangrene

The authors report 4 cases of juvenile gangrene and review the literature on the condition first case was that of a boy four and a half years of age who was suffering from an acute generalized injection which began with a cough and difficulty in breathing and swallowing At the end of the first week pain began over the left and le and heel. The skin became blue and in the course of the next two weeks turned black Similar changes took place over the tip of the left car and on the prepace but only the ear sloughed The foot sloughed at the ankle joint at the end of two months. The child recovered from the acute illness. Two and one half years later the stump was fashioned for weight bearing When the child was re examined at the end of five years he was found to be well developed except for absence of the left foot and the tip of the leit ear

The second case was that of a boy aged six years who developed gangrene of both legs and one hand

following an attack of diphtheria

The third ease was that of a boy seven years old who had widespread chronic tuberculosis lie had been chronically ill for six months with enlargement of the abdomen and a cough when the left foot and the lower part of the left leg became blue anothen and tender Gradually this gangrenous area became deep black and separated from the hving tissue Four months after the onset of the condition when the soft parts had sloughed through to the bone an amputation was done through the thigh The parts bled freely Six months later the box was still alive and the stump was healed although the tuberculosis has more advanced A section through the main vessels in the amoutated leg showed endartentis tonfined largely to the intima One of the vessels aboved evidence of canalization as though it had been thrombosed The fourth case was that of a boy of fourteeo

he journ case was that of a boy of fourtees east who had an indolent perforating uleer on the ball of the great toe and in the course of three weeks deteloped gaugene of the typ of the second toe and a perforating uleer of the sole of the foot. The anterior portion of the foot was imputated. The stump healed soundly. The boy is well tody and free from the course of the foot was apputated.

In 1904 Barrand reported 103 cases of gangrene of the extremities occurring in persons under thirty seas of age following an acute infection

kantz in 1914 reported an additional 20 cases 2 of which were seen in his own practice. In one of

the latter gaogrene of both feet developed after mersles in the other there was gangrene of both feet and one hand but the cause could oot be determined.

termined
The autops findings show that according to the etoology the cases of gangrene reported may be divided in a groups () those in which the gangrene followed an embolist the primary thrombus being in the heart or aorta (2) those in which there was a primary thrombus being the primary of the primary o

To account for certain cases of gangrene the in fluence of infection on the occurrence of thrombosis in the heart large vessel and capillaries must be studied. The influence of toxins on the endothelial juming of vessels sluggishness of the blood stream with the deposition of blood pittletis apaism of the other of the studies of the studies of the thrombit may play a part in the development of this condition.

In pearly all of the reported cases the gangrene occurred during the terminal stages of a generalized infection or after such an infection

Experiments by the authors on rabbits showed that the minute vessel of the extremities can be so altered by the local injection of adrenalin combined with intravenous injections of streptococct that capillars thrombosis followed by gangerie occurs Spasm with diminished blood supply to the part predisposed to infection

In many of the cases reported symmetrical gangrene occurred but a diagnosis of Raynaud's disease was unwarranted. In children symmetrical gangrene is not an entity

MANLEL E LICHTENSTEIN M D

Barber II W and Orlel G II A Clinical and Biochemical Study of Allergy Lancet 1928 cc1v 1009 1004

The authors report that in various manifestations of the alkergie state certain phenomena have been demonstrated to occur with remarkable constancy and some of them have been noted by other investigators in experimental anaphiplans and in serum sackness which is generally admitted to be of ana phylactic origin.

Whether the allergic state is intermittent (as in certain cases or urticalia angioneurotic cedema asthma or has fever) or more or fees chronic with periodical exacerbations and remissions (as in Besmers prungo and infantile eczema) there can

be recognized a definite cycle of events corresponding to the preparoxysmal stage the actual paroxysm and the postparovysmal stage. In this cycle the most striking features are (1) a rise in the amino acid content of the blood () a fall in the chloride content particularly of the corpuscles due pre sumably to the taking up of chloride by the tissues (3) chloride retention excretion of chloride in the urine being diminished or absent during the parox vsms and increased after the paioxysms, at which time the chloride content of the blood may also be raised (4) a rise in the urinary excretion of ammo ms the ratio of free acid to ammonia combined acid being altered often very strikingly (5) a deposition of urates in the urine in the preparoxysmal or par oxysmal stage (6) an intense ether reaction during the periods of active symptoms and (7) dimesis with increasing acidity and sometimes marked alkalimity of the unire in the po tparaxysmal stage

In a large percentage of the cases examined so far there was a positive van den Bergh reaction of the

biphasic type

The findings in a case of anaphylactic shock a case of multiple scalds and cases of definite hepatic di ease vere s mult

The authors believe it possible that the increase in the amino acid content of the blood results partly from (s) the increased endog nous katabolism that occurs in anaphylactic and allergic reactions as shown by the increased formation of creatinine (2) the relative temporary hepatic insufficiency caused by the damage to the liver cells as evidenced by the positive van den Bergh test and (3) the interaction of the antigen and the defense fer ments of Abderhalden whereby amino acids are formed. In any case the positive van den Bergh reaction the raised amino-acid content of the blood and probably the increased ammonia excretion, the ntecipitation of urites and the ether reaction in the urine are indicative of a disturbance of hepatic function. It is likely that the increased ammonia excretion and the temporary retention of chlorides are protective mechanisms

In many cases of allergy regulation of the diet according to the authors interpretation of these inclines and the internal administration of ammonia and glucose have proved of definite value

East C Robusties V D

MacGarty W C The Cancer Cell in the Prictice

of Vedicine Radialogy 1918 or 3 or 10 Unit recently gross appearance hastological pri terra and the structural status of the basement membrane of tumo c con tituted the only criteria on which diagnostic and prognostic judgments might behaved. These criteria has eserved well in the recognition of advanced malignanty b t are insufficient for the diagnosis of some of the smallest growths.

Even the smallest cancers are sometimes associated with lymph node involvement. We must therefore begin to attack radieally all conditions that show any analogy to carrer. With our present knowledge the only practical procedure is to de termine as soon as possible whether a cytological condition is dangerous or not

For Suenty one years the author has sought unit and or the early diagnoss of malignancy and beginning in 191 he described three cytological could know associated with chrone irritation in the automary actions the gastine tubule the pro tatus annual and the skin An appearance sing esting malignancy was natured secondary cytoplassa. It was never was natured as a secondary cytoplassa. It was never a man to reduced operation was estimated.

The malignant or cancer cell to woodla to splew acl and has a large nucleus and one or now leps nucleoit. As compared with the quiphant of the adult or reparative regenerative cell the cripic, of the malignant cell is less dense and themselves of the realignant cell is less dense and themselves as the dense and more granular. These characteristics can be seen an perfectly fresh sections stated or unstained, and an property stated first steels. They have not yet been seen in tissues embed leit a paratim or cell bed on.

parame or evelogia. The morphology of the maliemant cell is so the a terristic that an expert cytologist thoroughly familia with it and with the high power details of every cell in the human body should be able to diagno cancer from a single cell in the sinus of an infammatory temph node.

The malignant cell; a paras to It has a definite a place in medicine as the tubertle bacilius or the sprochest pallida. Its presence should be avertigated when a chronic local idecretion or limited ton does not heal or chappear in a far veels it possible the affected area or mass should be exceeded to diarnose.

The more the author sees of small cancers the more he is inclined to believe that we will soon be rom pelled to perform a ranical operation for secondary oppositudes. As that condition can the reconvenient of the performance of the secondary of the seed of t

Wood F C Cancer Biology and Radiation Radiology 9 8 m 388

When Warburg found that under national conditions tumor cell are all to split theorems conditions tumor cell are all to split theorems conditions tumor cell are supported by the cell and to the cell and to cell and to cell and normal cells had been found but it was soon discovered that return depithelms leaves its embryonic structura and placental tasses have the same power.

In animals but in a almosphere low moyenthe disappearance of tumors has been observed the disappearance of tumors has been observed to administration for large quantites of glaves seem in the last analysis to have no effect uposeem in the last analysis to have no effect upotumor growth Moreover it appears that Rous tumor is due to some chervical subtract which acts as a stimulant to the tissues of the fast and that in mammalian tumors conditions are oute different

The morphological changes which accompany the distriction of tumor cells by the \ and Y rays are not characteristic of these radiations but an effect certed also by other physical sgents such as heat and cold chemicals and ultravolet light here a similar effect upon the nuclei of the cells. The laws governing the destruction of cells by relation are the same as those governing the control of the same as those governing the same as those governing the same population and the same as those governing the by the same population of the same population of the same population. Biological dosage may be easily estimated by subjecting drosophila eggs to chalten The sealits can be read in forty sight relation.

Bair Bell has shown experimentally that colloidal lead in the tissues acts directly on the cells while ment substances such as suphure carbon and colloidal gold base no such action. In the treatment of certain tumors the author has found that when lead is administered previous to irradiation the fullicancy of the irradiation is increased by 10 per cent. This is due not to the secondary rays but to a towe effect on the tumor cells.

Vaccines sera and non specific substances have been tried in the treatment of cancer without uni

form success
In the author's opinion a fertile field for investigation regarding cancer treatment is the study of combinations such as lead and an anti human serum. The lead might affect one portion of the cell while the serum might affect another and when \ray

tradiation to the limit is added a certain number of tumors might be affected favorable. In conclusion Wood states that the technical problems of killing the tumors without injuring the patient and determining which tumors will vali to irradiation and which will not must be better solved before radiotherapy becomes a scien

According to Rokatansky there is a definite analogoomin between tuberculous and cancer and autopoint to the findings of Centami and Rezzes in mistigations on automals cancer cells and tuberce bailly have an injunous effect upon each other looseer less les this antagonism and the constitutional resistance there are numerous other factors which are expunsible for the runty of the association of furcious and cancer in the same or Runsing

The author reports a case in which a latent tuber colors became activated in the presence of numerous metastases from an advanced carcinoma of the breast and caused death in three weeks from tuber

culous pleurisy and peritoritis. Before the activation of the tuberculosis the patient had remained in relatively good condition for three years despite the clinical and roentgen demonstration of cancer metas axes: On histological examination the cancer metas were found to be embedded in considerable connective tissue.

In this case there was not only marked resistance to carcinoma invasion but also excellent power of repair A spontaneous fracture of the neck of the femur bad re united despite invasion of the fracture

site by metastasis

The author suggests that the natural resistance of the body to carcinoma might be increased by such therapeutic measures as a change of diet environ ment and climate treatment with insulin for the hyperglycemia which is associated with carcinoma and large does of arsenie. He states that when the organism is badly damaged by carcinoma it is considered to the state of the consequent of the state of the consequent of the state of the

GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

Tayfor J F Baeillus Proteus infections J Path & Bacteriol 1028 xxxx 807

Taylor states that the name bacillus proteus should be restricted to a well defined group of nos sporing gram negative p fromorphic proteolytic and hamolytic bacilli which produce a spreading or creeping growth on solid media ferment dextrose and saccharose and occisionally mailose but do not ferment lactose mannite or duicite may or may not form true indol from peptone water and in min form a transient clot which is very rapidly pep

This article reports morphological cultural bio chemical and serological studies of fifty three strains recovered from human sources all of which strains showed the characteristics enumerated. Only three fermented maltose and only the same three strains produced true indo

Agglutination tests showed variations between the strains and absorption tests seemed to show definite

differences

In mun the bacillus proteus may produce severe infection or exist as a harmless saprophyte in the tissues body fluids or excreta. An attempt has

been made to classify the strains as pathogenic and non pathogenic on the basis of the history clinical course and bacteriological findings in each case Twenty two strains have been classed as pathogenic twenty four as non pathogenic and seven as doubtful.

No classification into pathogenie and non pathogenie strains could be made by the laborators methods employed and no differences were found between strains recovered from urinary facal or other sources

Bacillus proteus \ 19 of \ eil and Telex was found to differ serologically from the fifty three strains of bacillus proteus studied by the author

but otherwise resembled them closels

Join J Malony M D

Francis E Tularæmia J Am U 1ss 1928 tel

The author describes 4 clinical types of tularae

mia based on a study of 679 case reports

The ulceroglandular type manifested first by
a papule of the skin followed by an ulcer and en

largement of the regional lymph glands
2 The oculoglandular type with conjunctivitis

and enlargement of the glands
3 The glandular type with no primity lesion at
the site of infection but with enlargement of the

regional glands
4 The typhoid type with no primary lesion or

enlargement of glands
The infection may result from the handling or skinning of rabbits the dissection of laboratory animals or the bite of the tick. No case has been reported of the spread of the die case from man to man by contact. The period of mediation saries from one to ten days and averages three days. The onset is studden and manifested by headsache vomit

ing chils and fever
In tulaxmu of Type I the pain begans in the regional lymph nodes. These nodes become en aliged and tender with often redines of the skin which may extend in streaks to the site of the lesson which may extend in streaks to the site of the lesson which may extend in streaks to the site of the lesson in the site of the lesson in the site of the lesson which may be not the site of the lesson that the site of the site of the lesson in the site of the site

purate.

In Iuliaramia of Type z the eye manifests irritation of the conjunctiva redness ordema of the conjunctiva and seeding of the lids and there z saeling with tenderness in the pre aureality part of the and submanifare yinghi gladids. Small oleers the saeling with tenderness in the pre aureality part of the saeling with tenderness in the present the saeling with the saeling the sael

Tularamia of Type 3 causes enlargement and tenderness of the epitrochlear and lymphatic lymph glands but no primary lesion

In the typhoid type fe er is the outstanding, feature. This condition has often been considered to be typhoid until the physician has been impressed by the negative Widal test, with agglutination of the blood to the bacterium fulleries.

In all types there is fever characterized by an unitial rise a remission of two to three days and a secondary rise. Leucocytosis is present to the created about 16 oco. 1 kine requirem was noted in 32 cases and varied from a rish to a mestlopingly required to the creation of the control of

Important aids in the diagnosis of the condition are a history of rabbit handling or tick bite a pri mary papule followed by ulceration persistent glandular enlargement in regional nodes and lever of from two to three weeks duration. The existence of the disease can be proved by agalutination of the bacterum tularense by the patient's serum or by isolation of the bacilii from the guinea pig after inoculation of the animal with material from the primary lesion Agglutinins may be demonstrated after the first week of the disease and often reman present in the serum for years after the patient his recovered from the illness Illuman tularems may show cross agglutination of the brucella abortus and brucella melitensis. This i much slower than agglutination of the bacterium tularense. The reverse also is true Bacterium tularense can be bolated from man only after animal inoculation with material from the lesion prepared and injected subcutaneously Necrops on the animal will show grav granular caseation of the lymph godes and white necrotic foci on the spleen Maten i it m the dead animal rubbed on the shaven abraded skin of another guines pig will bring about the transfer of the disease Culture of bacterium tuines : may be acquired by moculation of blood dextree cystine agar with heart blood or spleen and hver substance from the dead animal

substance from the dead animal
The author reviews notes on the leuon in 38
cases of skin eruption and subcutaneous notes
There are all o ease histories on 24 fatal as es
William J Printer M.D.

Baroni B Experimental Actinomyco is (Actinomicos perimentale) 4rch ital di che r 19 8 mi

Stop

Baroni made a number of experiments with regard to actinomycosis infection using the sits actinomy cost sateroides which D Ayata had sitsled three years previously from a case of actionom cost of the forearm. Having found that the stress believes the sits of the stress of the

In all eighty nine animals were inoculated to the property of the property of

inoculation caused an acute generalized form of actinomy costs localized particularly in the lumps at my ocardium and associated with the formation of pre-adouthereles There were no no lules in the splen or in the lymphatic glands and few in the intestinal tract and the female generatian. The missimal rest and the female generatian when the generatian is the properties and the liver were most affected. The process was frequently localized in the brain Decreases as frequently localized in the brain Decreases as frequently localized in the brain Decreases as frequently models showed more exudation bondles showed more exudation of the properties of the pr

Inoculation into a branch of the mesenteric vein produced nodules only in the liver in the form of

club-shaped structures

Inoculation into the perstoneum brought about a disseminated process with a subscute or chronic course which terminated with healing in the rabbit and guineap ig and showed a tendency to extend in the rat and the cat. Rats and cats rarch showed a tendency toward spontaneous recovery. The structure of the actinomycotic granulomata was simost the same in all of the animals

Direct inoculation into the testicle caused the development of abscesses The micro-organisms

were found rarely and only in the form of filaments. Subcutaneous inoculation brought about err cumserned abscesses which sometimes opened and healed spontaneously. The actionomyces were generally in the form of filaments. The elub-shaped structures differed morphologically from those found in other size.

Epidermal inoculation was negative

Following intravenous and intraperstoneal in oculation nodules were found in the Lidness

Cultures made with the material from fresh modules were positive whereas cultures made from older nodules were sometimes positive and some

times negative
The experiments prove definitely that inoculation

of actinomycosis is possible. The author attributes the negative results obtained by some experimenters to special conditions of the actinomyces at the time of isolation or inoculation.

AUDREY G MORGAN M D

EXPERIMENTAL SURGERY

Gruzdev V. Injuries from Colored Pencils (Ucler Tintenbleistifiverletzungen) Vra bnaja ga 1928 in 200

After reporting two cases of conjunctival injury and two cases of cutaneous injury from colored bracels the author reviews his findings with regard to such injuries in experiments on animals. He

demonstrated that the anilm dye contained in the pencil point causes a connective basic necrous with the formation of a zone of infiltration and granulations stained with the dye suggesting a rapid promise aseptic infilammatory tumor. He recommends immediate radical removal of the tumor.

Bock (2)

IIIIse A Experimental Free Fat Transplantation Histological Findings (Hi tologische Frgebniste der experimentellen freien Lettgewehrtansplanta tion) Better pathol final in allg Pathol 1928 Frux 502

In experiments with free transplantation of fatty tissue in rabbits and dogs to determine the hamo static properties of such tissue in hamorrhage of parenchymatous abdominal organs the author had the opportunity to make a histological study of the changes occurring in the transplants sections yielded information regarding the fate of freely transplanted fatty tissue the microscopic changes occurring in it the part that perishes and the part that remains and whether and how re generation of fatty tissue cells takes place. The conditions of the investigation were particularly favorable in that the transplantation of fatty tissue was made into a bed of a different sort of tiasue and in a region that contained no fatty tissue. Moreover the fatty tissue transplanted onto wounds on the surface of the liver kidney or spleen was not sub jected to changes in its static relations or to func tional demands in the way of traction or pressure and its viability was favored by the rich blood supply of the organ

of the second of

The author believes that clinical failures in the transplantation of fatty tissue are due to technical errors in the operation or absence of indications for the procedure

FLESH TREESILS (Z)

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE -THE POLD LACE FIGURES IN BRACKETS AT "BE RIGHT OF A REFERENCE INDICATE THE PACE OF THE I SLE ON WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

SURGERY OF THE HEAD AND NECK

A study of 520 cases of fractures of the skull I A MCCREERY and 1 B Berney Ann Surg 1928 Ixxevin 800

Cramoplasty for clo use of defect B NEUBACER Ann

Surg 1928 Exxxviii 1104 Craniop asty by the spirt no method R C Brown J

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EDITOR'S COMMENT

OVNIHAN S discussion of problems in gastric surgery (p. 432) emphasizes a number of important points. He can siders first of all that the terms gastroduodenal uteer' and yuxtapyloric uteer are misleading and should not be used. He mentions the differences in symptoms in behavior as regards per foration and hemorrhage, and in their tendency to undergo malagnah degeneration as some of the definite indications of the essential differences between easter, and doubenal uteers.

Although he agrees that gastne and duodenal ulcers may heal and remain healed under him but medical treatment and surgical treatment he membasies the fact that before treatment be begin the presence of an ulcer must be definitely be eartfully considered to avoid misinterpretation. Medical treatment has won an undeservedly high repute for curing ulcer in cases in which ho ulcer was present; just as surger, has been bought into bad repute by the performance of gastroen terotromy in cases in which no ulcer was bresent.

He does not believe that a large penetrating gastric ulerc and be healed in three weeks time as has been reported by MacLean for he has carefully watched cases which were found and operation to be too high for resection and in one of these did healing occur in less than four months. He also takes exception to Hurst's statement that penetrating and callowed ulers may heal in four months for he has found that it may require as long as three years.

He calls attention to the modern tendency of surgeons to abandon short-circuiting operations because of the unsatisfactory results obtained (in 36 per cent of cases as reported by Lake) because of the expressed belief that gastric and duodenal ulcers are as likely to bleed after operation as before (Pannett) and because of the not in frequent occurrence of a postoperative jejural ulcer (in 34 per cent of cases in which a castro enterostomy was performed for duodenal ulcer by Lewisohn) In answer to the first statement Moynihan expresses his belief that such oper ations are the most successful of all abdominal operations It is essential however that the patient be properly prepared before operation that dental infection be eradicated that at oper

ation the ulcer itself be dealt with by cautenzation or otherwise, that the appendix be removed and the biliary tract and spleen carefully examined and that after operation the patient should have a carefully regulated diet with restriction of tobacco alcohol and salt. Obviously, gastroenterostom; should not be performed for lead poisoning tabes visceroptosis or achlorhydna If bleeding continues after operation it must be assumed that the operation of gastro-enterestomy was done in cases for which it was unsulable or that a duodenal ulcer was left untouched Jejunal ulcer may appear as a postoperative com plication of gastro enterostomy even as late as mineteen years after operation but even after three fourths of the stomach has been removed free hydrochloric acid may still be found in the gastrie contents so that the claim that secondari ulcers will not form after gastrectomy because of the anacidity following the operation has been repeatedly disproved Already more than to cases of jejunal ulcer following gastrectomy for duodenal ulcer have been reported

That gastro-enterostomies frequently requiseparation is true but in none of the many case that Movmhan has separated when there worder ocal signs of an old or recent gastni or duidend

M Cracken's review of seventy five cases in which a fractional gaster analysis was more on two or more occa soos and in which at pre-tied of the patients showed a different intested the weaton time (p. 43). The strength of the patients showed a different intested the necessary for repeated examination of the game contents in the contents of the contents of the contents of the contents of the patients of the contents of the con

Lemon a experimental studies of the function of the dasphragm (p. 441). Phemistra and the pathology and treatment of py-gradathylating the pathology and treatment of py-gradathylating (p. 450) and Nen s description of the technique of a simplified two-stage largy actions are a few of many other interesting reviews in this bounds a sister of the Austraco.

INTERNATIONAL ABSTRACT OF SURGERY

MAY 1929

LANDMARKS IN SURGICAL PROGRESS

By IRVING S CUTTER M.D. Sc.D. CHICAGO
D in No thwestern University Med cal School

LATERAL ANASTOMOSIS OF THE INTESTINE-PHILIP SYNG PHYSICK

HE surgical career of Philip byng Physick favorite American pupil of John Hunter and first American to become house surgeon in St George's Hospital exemplified the teaching of the Hunterian School Closely associated with Hunter as resident pupil for a year and a half with an additional year spent as house sur geon I hysick absorbed his mas ters enthusiasm and fondness foresperiment Huntermade use of Physick's aptitude in this re spect as is shown by a note in Hunter's Treatise on the Blood Inflammation and Gun Shot Wounds 1

Many of these experiments were repeated by my desire by Dr. I hysick, now of I hiladelphia, when he acted as house surgeon at St. George's Hospital whose accuracy. I could deemed upon?

Few surgeons of a later day have done more to advance the methods of surgery than Philip Syng Physica. A study of his life and currer impress es one with his ingenuity and resourcefulness as well as his sound knowledge of basic surgical punciples. His tame re ts upon his outstanding teaching abbits; and on numerous ingenious im proviments in the practice of surgery. The two

Public Syng Pursick⁴ (768 tS ₁)

volume Elements of Surgery 3 published by Physick's nephew John Syng Dorsey is a carefully compiled and well arranged trea tise drawn largely from Physick's lectures on surgery which he be gan to deliver to students shortly after his appointment as attend ing surgeon to the Pennsylvania Hospital Physick inaugurated nrivate lectures in surgery in 1800 and in 1805 his appointment as Professor of Surgery in the Uni versity of Pennsylvania gave him the widest possible field for the dissemination to eager American students of the surgery of John Hunter Dorsey's Elements records scores of useful surgical

procedures margurated by Physick many of which were unique. I hysick greatly improved Desault's split for the treatment of fracture of the femur providing by this improvement better immobilization and insuring greater comfort for the patient. He advocated a successful method of stimulating bony union in cases of ununited fractures and was the first American to wash out the stomach by means of a guine elastic tube with syringe attached. At the time he was unaware F t dwn Pla Wha was in the provided that the stomach provided the stomach of th

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of the earlier work of Alexander Monro Jr of Edinburgh who had advocated this procedure in his inaugural thesis published in 1797. Appar ently neither Physick nor Monro had noted the article by John Hunter in which was detailed the use of a flexible tube for the purpose of conveying food into the stomach. Hunter scass was entitled

A Case of Paralysis of the Muscles of Degluts uno Cured by an Artificial Mode of Cone-ying Food and Medicines into the Stomach "Physick greatly improved the instruments used in thost only in which he was an expert operator." One of Physick a famous cases is the operation for third may be a compared to the control of the Cone of

animal origin. The second edition of Dorsey's Elements of Surgery 4 contains the following paragraphs

Shortly after the first edition of this work was published Dr. Physick suggested to the author the propriety of testing by experiment the value of an improvement be had long contemplated in the formation of ligatures—this was accordingly done and his resulted in the substitution of certain animal substances for the materials formerly employed

The first experiment made to ascertain the correct ness of these opinions was the application of a buck skin ligature to a large artery in a borse. It restrained the bleeding and was discharged in a liquid

state in two or three days

Some time after this experiment Dr Hart shorne' employed ligatures of animal matter for securing the blood vessels in the human subject lie amputated a leg at the Pennsylvania Hospital and tied up the vessels with strips of parchiment which were found to answer extremely well. At the first dressing the ligatures were found chasolved and never occasioned any inconvenience.

Pursuing the enquiry I performed a number of experiments with various animal substances as cat gut parchiment and various kinds of leather In many respects however Physick's opera

anastorooss of the got showed supenor have edge of physicology and of the principle of an eggy. Due to gangere modern to a strangulate herata an artificial name was occasionally not with Physick's famous case was operated upon in 1869. He subsequently described the case necessary of the subsequently described the case appeared in his Elements in 1812. Later full report prepared by Dr. B. H. Costes appeared in Noume II of the North Sunnick Utelacid and Surgical Fournal Dures's Elements contains the paragraph published her with in farsumle. The report of Dr. Costes gives in greater detail a description of the eggress in greater detail a description of

The two ends of the intestine were found by a careful examination to adhere to each other for some distance and the form thus presented his been compared in this case to that of a double barrelled run

The next method proposed by Dr Physick was to cut a lateral opening through the sides of the intestine where they were adherent But not knowing the extent of the adhesion inwards he thought it necessary to adopt some preliminary measure for ensuring its existence to such a depth as might admit of the contemplated lateral opening without penetrating the cavity of the penioneum By introducing his finger into the intestine through one orace and his thumb through the other he was enabled to satisfy himself that nothing inter vened between them but the sides of the bowel He was thus enabled without risk to pass a needle armed with a ligature from one portion of the intertime into the other through the sides which were in contact about an inch within the orinces which ligature was then secured with a slipknot

This operation was performed on the 18th day of

After about three neeks had elapsed concluding that the required union between the two folds of perstoneum was sufficiently ensured By Physic divided with a bistoury all the parts which now to mained included within the noise of the ligiture No unfavourable symptom occurred in consequence

Two or three weeks subsequent to the compensate through the new opening and was voide through the new opening and was voide through the artificial opening. The patient was discharged from the Penisyl hand the before the external opening had entirely closed which according to Dr Dorsey ultimately occurred.

An earlier procedure seeking a remedy for this distressing condition appeared in a paper by Christianus Ernestus Schmalkalden published in

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In a patient with artificial anus at the Pennsylvania. Hospital Dr Physick performed an operation which will probably be found to afford complete relief in many similar cases. The aides of the intestine in this in stance were consolidated laterally or in Mr Cooper's language like a double-barrelled gun In order to en sore this union a ligature was passed through the satestine and suffered to rem in a week, keeping its aides to close contact, after which Dr Physick ent a hole to the ade of the intesting where the two portions had thus united, and by stopping the external erifice, the faces recained their natural route, the external aperture was afterwards healed and the nations relieved from his most loathsome complaint he has for several years etjoyed perfect bealth.

Facsimile of first published report of Physick's anas tomosis of the intestine - Dorsey's Llements of Surgery Philadelphia 1813

1798 1 Schmalkalden's pamphlet was probably unknown to Physick Desault2 had advocated the removal of the dividing septum between the two loops of gut which he called the spur his lectures on chinical surgery Dupuytren's cites a case which came under his care in 1800 in which the idea of dividing the septum creating a lateral anastomosis occurred to him Recognizing how ever the facility with which serous membranes unite, he advocated passing a ligature through the adherent sides of both ends of the intestine as far as possible from the projection of the spur the opening made by the ligature later to be en larged so as to admit a piece of braid thus making it possible to enlarge the opening still further by means of a perforating instrument. It does not appear that Dupuytren actually performed the operation until 1813 In his Clinical Lectures describing Case II he said

I resolved therefore on perforating this septum and then pierce it with a needle carried as high as possible into the cavity of the upper end its point being received in the cavity of the lower end and drawn out A ligature with which the needle was armed was left in the opening thus made

A few days after a larger ligature was introduced through the aperture. From that time gas began to escape from the natural anus The size of the liga ture was increased at each dressing and in eight days the patient passed his faces by the funda

Desirous of removing completely the di ease I thought that the portion of the septum above the aperture made by the needle ought also to take on

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the adhesive process and that it might be divided with as little danger as the part below and therefore determined to make the attempt. This consisted in an incision every three or four days at the distance of half a line from the upper part of the septum by means of blunt scissors directed on the index finger These incisions small in extent and not passing be wond the limits of the already established adhesions, increased the aperture of communication so much that the faces were discharged by the natural anus

Dupuytren reports that yielding to the importunities of his patient he completely divided the senture and a few hours later his patient showed symptoms of peritonitis which resulted in death Dupuytren however continued to advocate the procedure and his Lectures on Chinical Sur gery contains his summary of the experience of himself and others

From 1813 to 1824 forty one operations of this nature have been performed twenty one by our selves and twenty by other surgeons amongst whom we name with pleasure M Lallemant of Mont pelier Three fourths of them were in consequence of gangrene following strangulated hernia and the remaining fourth of wounds with more or less con siderable loss of substance of the alimentary canal Of these forty one cases three have died one from supposed effusion of fæcal matter one from indiges tion and a third from acute peritonitis. Of the thirty eight remaining the majority had not an unpleasant symptom some it is true suffered from cohe nausea and even vomiting but they were soon relieved by effervescent draughts and the application of leeches to the anus and emollient tomentations to the abdomen

The cure has not been equally perfect in all these cases. In nine there have remained fistulas of various extent obliging the nationt to near constantly a bandage in order to prevent the escape of flatus mucous bilious or facal matter. The other twenty nine were radically cured in from two to six months The latality has therefore been one in fourteen and taking away the one who perished accidentally from indigestion it is reduced to one twentieth of the cases operated upon a result much more favorable than generally obtained in great surgical operations Listly it is to be remarked that the last fourth of patients although less fortunate and obliged to wear a bandage with a pad were in a situation in comparably preferable to that in which they had previously existed

Philip Syng Physick was born in Philadelphia in 1768 He was prepared for college under Robert Proud and entered the University of Pennsylvania receiving his A B degree in 1785 Shortly thereafter he enrolled as pupil apprentice under Dr Adam Kuhn' attending in addition

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lectures in the University. After an apprentice ship of three and a half years he accompanied his father to Lurope and enrolled as a student under John Hunter the leading. Legish surgeon and physiologist of the day. In May, 1791, upon the completion of a one year surgical residency in St. Ceorge's Hospital howas admitted alicentiate of the Royal College of Surgeons. He then proceeded to Lehnburgh where after one year of study he was granted the degree of Doctor of Medicant He returned to Philadelpha in the fall of that year. In 1794 he became one of the surgeons of the Tunnyls hand Hospital and in Too was elected Professor of Surgery in the University of Penn sylvania. In 1879 his nephen John Syng Dorsey.

was made his adjunct in the Depa tre t of Surgery He was an impressive lecturer usually reading his lectures from manuscripts or using copious notes. In 1810 he resigned the chair of

surgery and was transferred to that of anatomy for more than a that of a century Physick as the surgical mentor of thousands of students and las surgical teaching widely disseminated turough his pupils and through Dorsey * Elemest pointed the way to greatly improved surgest pointed to the manufacture. The productive Probably no surgical teacher in leneal exercised so wide an influence as did Physick. He brought to America the surgery of John Hun et and bas deservedly received the appellation. The Father of American Surgery 1.

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

EYE

Gill W D Ocular Symptomatology in Dengue Based on an Analysis of 1 241 Cases Arch Ophth 1928 Ivis 628

In dengue fever the ocular symptoms are a strik ing feature of the early stages of the disease During an epidemic in 1923 1 241 patients with dengue lever were admitted to the Station Hospital at Fort Sam Houston Texas In these cases photophobia was an early symptom often preceding all others and was most marked during the first day or two Quite intense retrobulbar pain and headache were present in every case. These symptoms were as characteristic of the condition as the dermatological signs and adenopathy Other symptoms included conjunctival congestion ciliary injection lachryma tion and globar tenderness

No organism was found to account for the con junctival hyperæmia Fngorgement of the retinal blood vessels was a constant finding. It began early and was most marked on the third or fourth day when the headache and retrobulbar pain were also most intense Concurrently there was some degree of hyperæmia of the optic nerve head without swell ing or blurring of the disk margins. In some of the ca e weakness of accommodation became at times to marked that the author considered it a paralysis of the ciliary muscle No iridoplegia attributable to deague was found BOIL WESCUTT MD

Beymouth F W and Others Visual Aculty with in the Area Centralis and Its Relation to Eye Movements and Fixation Am J Ophth 1928

This article reports an investigation of the visual accusty of a central retinal region (including the forca) with a radius of 85 or 0 42 mm from the axis of fixation. The method of observation yielded sig a figurit results to three observers. These are sum

marized as follows

I In the light adapted eye a uniform sensory gradient is shown to exist in the central retinal area similar to that found in the entire retina (Wertheim Aubert Fick and others) The visual acuity attains a sharp maximum at the axis of fixation. It de cr ases rapidly but regularly in all directions It shows no breaks or marked variations in rate of thange at the margins of any of the known anatoms cal areas (fovea rod free area pigmented area or macula non vascular area)

2 For two observers a significant difference is shown to exist between direct firation and 22 and for one observer for 11 showing that the gradient continues to the very center of the retina A similar retinal gradient is indicated by Wertheim to 2 30. and by Aubert to 1 15

3 The horizontal and vertical meridians (the only ones tested) are shown to have different rates of decrease of visual acusty from the axis of fixation

4 The acuity is shown to be higher when the lines of the test object point toward the axis of fixation

5 These results strongly support the view that the sensory gradient is the basic factor in eye move ments and fixation

Among the factors affecting monocular visual acusty may be included the following

A Factors related to the eye

s Sensibility of the retina varying with (a) age and sex (h) retinal adaptation and (c) topography of the retina

z Refractive condition of the eye varying with (a) age and sex (b) refractive errors

a Pupillary diameter

4 Eve movements

B Factors related to the stimulus (1) size of test object (2) type of test object (3) brightness of gen eral illumination (4) contrast between object and background (5) time of exposure of object and (6) wave length of light used

For calculation of the size of retinal images and visual angles the following method was used Let t equal the distance of the object from the first focal point y the size of the object y the size of the retinal image of the angle in radians sub tended by the object at the first nodal point and by the image at the second nodal point and F the re fractive power of the eye (58 64D for Gullstrand s

schematic eye) Then
$$y\left(Y - \frac{x}{x} = \frac{y}{x} = wf \text{ and } y = \frac{y}{x(Y - \frac{1}{x})}\right)$$
 approximately $\frac{y}{xY}$

LESLIE L McCos M D

Peterson R A Iris Prolapse from Corneal Ulcer Treatment by Conjunctival Flap Am J Ophth 1028 X 079

Prolapse of the 1113 following corneal ulcer and perforation is common in China I eterson reports thirty-eight cases Twenty nine of the patients were The ages ranged from eight to fifty two years In thirteen cases both eyes were involved In four of these there was gonorrhoal conjunctivitis

lectures in the University. After an apprentice ship of three and half years he accompanied his father to Europe and entolled as a student under John Hunter the lending English surgion and physiologist of the day. In Vlay, 1791 upon the completion of a one year surgical residency in St George 8 Hospital heava standited alcentiate of the Royal College of Surgeons. If then proceeded to Edmburgh where after one year of study he was granted the degree of Doctor of Wedmen Her tettured to Philadelphan in the fall of that year. In 1794 he became one of the surgeons of the Pennsylvans Hospital and ni 1805 was elected Professor of Surgery in the University of Penn without hospital and the 50 spin Borsey, without hospital motor his proposed policy in the One Surgery in the University of Penn without hospital nator hospital polisses, policy in the One Surgery in the University of Pennsylvania In 1807 his nephew John Sing Dorsey,

was made his adjunct in the Department of Surgery. He was an impressive lecturer usually reading his lectures from manuscripts or using copious notes. In 1810 he resigned the char of

surgery and was transferred to that of automy. For more than a third of a century Physick was the surgical mentor of thousands of students and his sorqueal teaching which disseminated through bare pupils and through Dorsey's Elements pointed the way to greatly improved sugral peractice. Probably no surgical teacher in termor exercised so wide an influence as did Physick. He brought to America the surgery of John Burst and has deserved by received the appellation." He Father of American Surgery.

The treatment is simple enucleation unless the tumor has extended beyond the globe when even teration of the orbit followed by radium and \ ray

therapy is necessary The author reports six cases and draws the follow

ing conclusions r Blind painful disfiguring eyes should be enu cleated as malignancy is occasionally present in such eves though not demonstrable

2 Routine examination of the fundits very neces

sary as sarcomata are sometimes found in apparently normal eyes

3 Careful notes of repeated observations of sus picious pigmented deposits in the choroid are of im portance

4 Early choroid sarcomata simulate evudative

choroiditis 5 Early diagnosis and prompt radical eradication are essential LESLIE L. McCoy M D

Lamb F W The Diagnostic and Prognostic Sig nificance of Retinal Hamorrhage Ohio State M J 1928 EXIL 940

Retinal hamorrhages may occur in any of the layers of the retina Their anatomical location is an important factor in the prognosis as to vision

Except in cases of obstruction or injury the primary cause of retinal hamorrhage is disease of the blood vessel walls Retinal hæmorrhages occur most commonly in nephritis associated with neuro retinitis When there is a well developed retinitis the prognosis as to life is poor

In arteriosclerosis retinal hæmorrhage is common and indicates that the blood vessel walls are con siderably weakened and that apoplexy is impending

In diabetes retinal hamorrhages are usually round and punetate and occur near the macula The prognosis for life is hetter than in alhuminum

retinitis

In leukæmia the hæmorrhages usually occur in the fiber layer and near the periphery and bave a white spot in the center The prognosis is poor for vision and life

Hamorrhages seen in the retina in a case of anamia point to the diagnosis of pernicious anamia In thrombosis of the central retinal vein bæmor thages are exceedingly numerous

When the diagnosis of choked disk is uncertain a hamorrhage at the margin of the disk eliminates

the doubt Retinal hamorrhages occur in from 30 to 40 per cent of newborn infants In such cases they usually

become absorbed without loss of vision An aid in the diagnosis and study of retinal barm orrhages is the use of the red free light in the opb thalmoscopic examination LYMAN & COFFS M D

Mengel W G Retinal Disease with Massive Erudation Report of a Case J Med Soc V Jersey 1928 YIV 788

The case reported was that of a boy six and a half)cars old who was first seen by the author after

vision in the right eye had been failing for a year There was no history of trauma or previous in flammation The findings of a general physical examination suggested the presence of pulmonary tuberculosis and infection of the right maxillary sinus On ophthalmoscopic examination the vi freous was found filled with dust like opacities the nerve bead was indistinct and an immense opaque dense vellowish white mass encircling the macula and crossed by retinal vessels was seen. The sur face of the mass was elevated and had a mottled cumulus cloud appearance Its margins merged into the surrounding retina and areas of patches were seen in different parts of the fundus chiefly along large vessels. No hæmorrhages were visible

Eight months later the opaque mass was larger and extended along the larger retinal vessels In the nasal quadrant the retina was detached. The blood

vessels were enlarged and tortuous

Nine months later the vessel changes were still more marked coils of small vessels were more dis tinct the delatations of the terminal branches of the superior temporal vein were larger and more numerous and the white mass was larger

A month later enucleation was performed be cause of secondary glaucoma

Microscopical examination showed marked dis organization of the retina and areas of newly formed fibrous tissue masses located chiefly in the nuclear layers. The neurogliar tissue was proliferated Some of the larger vessels especially the veins were enormously dilated and the walls of the vessels particularly those of the smaller arteries showed marked disease changes some of them presenting aneurismal dilatations

The vascular changes resembled those described hy Coats and the miliary aneurisms described by Leher LYMAN A COPPS M D

EAR

Mayer O The Pathology of Otosclerosis J La surol & Otol 1928 Blut 843

The author states that areas of otosclerosis are to be regarded as hyperplasias. This view is based not only on the histological appearance of the foci but also on their multiplicity and typical and sym metrical localization the presence of minute islands of atypical tissue (constituting the points of origin in these areas) the simultaneous presence of mal developments in the inner ear and other parts of the auditors organ the general hyperplasia of the temporal bone the association of the condition with blue sclerotics and osteopsathyrosis Paget's disease and neurofibroma of the eighth nerve and the hereditary character of the otosclerosis

JAMES C BRASWELL M D

Portmann G \asomotor Affections of the Inter nal Ear J Laryngol & Otol 1928 xhii 860

The author states that the angiospasmodic syn drome of the labyrinth includes (1) tinnitus (2) Three patients were syphilitic and nineteen showed poor general nutrition. In thirty six cases the lesion was located in the upper half of the cornes

The prolapse varied from 2 to 10 mm in diam eter The pre operative treatment consisted in meas ures to clear up the conjunctival inflammation Trachoma was not regarded as a contra indication to operation unless it was active. Lathrymaf drain age was investigated. For several days preceding the operation silver nitrate and atropin in 1 per cent solutions were used routinely. In all except the cases of the younger patients the operation was done under local anasthesia 1 large conjunctival flap was made and two mattress sutures were introduced into it. The prolapsed iris was then excised and the sutures were tied. On completion of the operation atropine sulphate and one of the solutions of silver proteid were instilled a firm dressing was applied over both eyes and the patient was kept in bed for a dry

Kuhnt's pedunculated flaps were lound unsatis

factory as were also single situres. The minmal time it was necessary to keep the flap in position to secure good results was sax days. The sutures were removed on the seventh day in the strength of the patient was allowed to open the eves on the the patient was allowed to open the eves on the second week. The latter pre-guint remaining the retroction of the excess of conjunctival tissue was not disturbed for at least two months. Yusual results and the patient of the second week.

tom; was done in twent; eight cases.

In twent; eight cases in which a good operative result was obtained there was definite improvement of vision ranging from 20,200 to 20/20.

Mills L. Modern Cataract Surgery J Am W 122

LESLIE L McCoy M D

1918 xc1 19 9 Mills discusses postoperative irrits and prolapse of

the iris
Postoperative iritis is of four types (1) traumatic
icitis (2) endophthalmus phaco snaphylactica (3)
endogenous tritis and (4) exogenous tritis

Triumatic into is caused by rough or excession manipulation of the issues irritation from hard fragments of leas remining in the eye tissue inclusions in the wound due to poor operative technique press ire and drag on the intact iris by hermation of the vitreous into the antierror chamber.

Endophthalma phace anaphylactica may be prevented by careful expression and urgation of floss lens cortex and in some cases by urgation of the anterior chamber with warm hall normal saline solution (Pees) which gives definition to the lens substance that oth reviews not visible. Mills battes that in his experience urgation has never been followed

by inits
Endogenous irits develops from one to several
weeks after any form of cataract operation as the
result of unrecognized focal or systemic disease such
as dental abscesses and intestinal infections

Exogenous irrits is due to infection of the trar sic and bacterial invasion by way of tissue meanerated in the wound

Prelapse of the ris may be primary excensive. Primary prolippes is due to prologoid fation of the globe and ris following the lattle plade through the mission. Secondary prolippe is caused by training due to awkward operative manipulations recessing the control of the ward operative manipulations are due to small aim mission the pressure of defective decisions; mediclesome and the early superior of the wound strains and assaults during court factoric difference in the court of the wound strains and assaults during court factoric difference in particular prolippes.

the omission of indectory. Until receipt the incises in cataciat surgery has been out of line with the treat ment of other presumable, clean opening weak, it is full sisture of the wound to prevent indictions at excitor the normal relations. Failur to sature the operative wounds of the eye has been left and restore the normal relations. Failur to study the operative wounds of the eye has been left and restore the normal relations. Failur to sature the operative wounds of the eye has been left and restored to the eye has been left and restored to the eye has been left and any operations may be as ouded by covering the wounds about the scleen cornel wound and faining it with about the scleen cornel wound and faining it with about five interrupted stuters placed with regard to the precularities of the wound. Lessie Mexica With Paris to the precularities of the wound. Lessie Mexica With a grant to the precularities of the wound. Lessie Mexica With Paris to the precularities of the wound. Lessie Mexica With Paris to the precularities of the wound.

Greear J N Jr Sarcoma of the Chomid I seems W Month 1928 h 633

The most common malignant intra ocular timot is sarcoma of the choroid. The development of the meoplasm shows the following four stages.

I An early stage which may or may not be ac

An early stage which may be may not data be companied by detachment of the retina or data be ance of vision

A glauromatous stage in which the eventually

assumes the appearance of acute congestive or absorbute glaucoma

3 A stage at which the tumor has extended be

A stage at which metastatic rodules a formed in the internal organs most frequently the liver lears usually pass before the sarcoma has run its

Lears usually pass before the sarcoma has run in course ulthough its growth becomes more rapid in the later stages

In the diagnosis the intra-ocular tension is of ignificance because it is normal or increased sheen in simple declarationers of the return at is unally sub-normal. Transfillumination is of great and far normal. Transfillumination is of great and far fully taken history regarding the remains and prior to the attack and regarding the tomostomer former and the other opens of importances for interaction of the other opens of importances and unusual pignomeration are of imprintances.

musual pigmentation are or agramma.

Sarcoma of the choroid appears between the fifteenth and eight fifth vent of age but mediteenth and eight fifth vent of age but mediteenth and surther jern lis prognosis is always grave Very times are usually formed within a few months after ender too but may not cause death until after from five ten verys

The treatment is simple enucleation unless the tumor has extended beyond the globe when exen teration of the orbit followed by radium and \ ray therapy is necessary The author reports six cases and draws the follow

ing conclusions

r Blind painful disfiguring eyes should be enu cleated as malignancy is occasionally present in such eyes though not demonstrable 2 Routine examination of the funditis very neces. sary as sarcomata are sometimes found in apparently

normal eyes 3 Careful notes of repeated observations of sus

pictous pigmented deposits in the choroid are of im 4 Early choroid sarcomata simulate exudative

choraiditis 5 Early diagnosis and prompt radical eradication are essential LESLIE L McCoy M D

Lamb F W The Diagnostic and Prognostic Sig nificance of Retinal Hæmorrhage Ohio State

JI J 1918 EEL 949 Retinal hamorrhages may occur in any of the lavers of the retina Their anatomical location is an important factor in the prognosis as to vision

Except in cases of obstruction or injury the primary cause of retinal harmorrhage is disease of the blood vessel walls Retinal bemorrhages occur most commonly in nephritis associated with neuro retinitis When there is a well developed retinitis the prognosis as to life is poor

In arteriosclerosis retinal harmorrhage is common and indicates that the blood vessel walls are con siderably weakened and that apoplexy is impending

In diabetes retinal hæmorrhages are usually round and punctate and occur near the macula The prognosis for life is better than in albuminuric retinitis

In leukarmia the hamorrhages usually occur in the fiber layer and near the periphery and have a white spot in the center The prognosis is poor for vision and life

Hamorehages seen in the retina in a case of anamia point to the diagnosis of pernscious anamia In thrombosis of the central retinal vein harmor thages are exceedingly numerous

When the diagnosis of choked disk is uncertain a hemorrhage at the margin of the disk eliminates

Retinal hemorrhages occur in from 30 to 40 per cent of newborn infants. In such cases they usually become absorbed without loss of vision

In aid in the diagnosis and study of retinal hæm orrhages is the use of the red free light in the oph thalmoscopic examination Lines & Corrs M.D.

Mengel W G Retinal Disease with Massive I audation Report of a Case J Med Sc \ Jersey 1928 XX1 88

The case reported was that of a boy six and a half tears old who was first seen by the author after

vision in the right eye had been failing for a year There was no history of trauma or previous in flammation The findings of a general physical examination suggested the presence of pulmonary tuberculosis and infection of the right maxillary sinus On onhthalmoscopic examination the vi treous was found filled with dust like opacities the nerve head was indistinct and an immense opaque dense vellowish white mass encircling the macula and crossed by retinal vessels was seen. The sur face of the mass was elevated and had a mottled comulus cloud appearance Its margins merged into the surrounding retina and areas of patches were seen in different parts of the fundus chiefly alone large vessels. No hamorrhages were visible

Eight months later the opaque mass was larger and extended along the larger retinal vessels. In the nasal quadrant the retina was detached. The blood

vessels were enlarged and tortuous

Nine months later the vessel changes were still more marked coils of small vessels were more dis tinct the dilatations of the terminal branches of the superior temporal vein were larger and more numerous and the white mass was larger

A month later enucleation was performed be

cause of secondary glaucoma

Microscopical examination showed marked di organization of the retina and areas of newly formed fibrous tissue masses located chiefly in the nuclear layers The neurogliar tissue was pro liferated Some of the larger vessels especially the veins were enormously dilated and the walls of the vessels particularly those of the smaller arteries showed marked disease changes ome of them pre senting aneurismal dilatations

The vascular changes resembled those described by Coats and the miliary aneurisms described by I eher I YMAN A COPPS M D

EAR

The Pathology of Otosclerosis Mayer O Larrneol & Otol 1928 xuil 843

The author states that areas of otosclerosis are to be regarded as hyperplasias. This view is based not only on the histological appearance of the foci but also on their multiplicity and typical and sym metrical localization the presence of minute islands of atyrical tissue (constituting the points of origin in these areas) the simultaneous presence of mal developments in the inner ear and other parts of the auditors organ the general hyperplasia of the temporal bone the association of the condition with blue sclerotics and osteopoathyrous Paget's disease and neurofibroma of the eighth nerve and the herechtary character of the otosclero is

JAMES C BRASWELL, M D

Portmann G Vasomotor Affections of the Inter nal Ear J Laryngol & O' 1 1923 zhu 860

The author states that the angiospasmodic syn drome of the labyrinth includes (r) tinnitus (2) dealness (3) vestibular hyperexcitability, and (4) sympathetic hypertonia

In addition to this syndrome of arterial resistance or hypertonicity of the labyrinth there is the syn drome of hypotoma or laxity with the classical signs of the sensorial suffering but with vestibular hypo

evertability and sympathetic hypotoms. These two syndromes may alternate with each other. Different reactions of the vegetative assign under the influence of a roung causes may be noted to the control of the control

However this veg tative distonat may occur in persons who are predominantly suportions and in still others in whom hypertonia predominantes over the sympathetic at the level of one organ of the body and the partsy morathetic predominantes at the level and the partsy morathetic predominantes at the level.

of anoth rorgan
Vagosympathetic disturbances and labyrinthine
vascular spasms are due to most diverse causes. The
causes may be mechanical endocranial tout or
paychic. The most important factors affecting this
regulating apparatus are undoubtedly the action of
the nervous system and the action of the endocrine
clands. Jurisc D'execut. MD

Poe D L A Study of the Fossa Subarcusta as a Passagemay for Infection from the Labyrinth to the Cerebetium 4sm Otal Khindi & La yn 101 1015 72XVII 1767

In the temporal bane of the adult the fossa sub artuata is usually obliterated but in some cases it may east as a small depression lodging a process of the draw mater and in others it may persus in its embryonic state. In the latter instance it is a portal by which infectious organisms from the ear can enter the brain

The author repo is a c.so of diffuse labyranthius in which the infection entered the brain through several openings in the petrous part of the temporal bone but first and chiefly through the fosca sub accusta. Jakes C Brasierla M D

NOSE AND SINUSES

Catter W. W. The Prevention of Nasal Deformities Following the Submucous Operation irch Oldgrange 1928 vm 555

Submucous reaction is the best method yet de vised to correct a deflected septum with obstruction. Certain precautions are necess uy to guard against deformities. The operation should not be performed before the eighteenth year of age unless

the indications are urgent. As the upper edge of the septum is an important part of the inside six in must not be dislodged. The free edge of the only rangular carthage is an important vertical support. The septum should be removed by means of puck forceps without traction on the doral segment Deformities resulting from this operation are better Deformities resulting from this operation are the corrected by a composed bone and cartilage graft taken from the patient's pub.

made also with bone or cartilage alone

The acticle contains several photographs of cortected external deformities. W. V. Paros V.D.

Lederer F L and Livingston G S. Tuberculosis of the Nasal Accessory Sinuses Ann Oil Khind & Laryng l 1918 xxxvu 1176

The authors report a case of tuberculous of the next accessory enurses reason promoting as tuber culous sotetits of the cranial boars. The patter had complained for a number of years of frontist had caches accompanied by vertigo and nause. Event ally the condition caused epistans and sense fixed the cyclids followed by blundaess. The order full showed moderate optic neurals.

Rhinoscopic examination revealed etlared inferior and middle turbinates and a small amount of granulation tissue in the middle meatus. In the reentgenogram a diffuse increase in the density of the sinuses was noted.

It operation the ethmoid and sphenoid are exenterated and tuberculou granulation to see with typical tubercles and grant cells was removed

Lille II I and Lillie W I The Effect on Certain
Syndromes of Chiasmai Tumor Lar ngot N
1028 xxxviii 761

Disease of the paranasal sinuses may be as outside with chiasmal tumor and cause disturbances of vision not typically characteristic of the condition Surgical treatment of disease of these sances should be instituted before the intracranial operation of chiasmal tumor

The ophthal nological vadrome of chiasmal tumor is characteristic and constant whereas that of d. case of the paranasal singues is not

The rhmological rounderstations of decase of the throughout the control of the co

and in the study of the condition the uphthalmolo gst neurologist and thinologist should cooperate

Pfahler G E Roentgenological Signs Which Indicate Extension of Infection from the Ethmold and Sphenoid Sinuses to the Base of the Skull Arch Otoloryngol 1928 vun 638

The study of infections of the ethmoid and sphe noid sinuses requires a roentgenogram of the base of the skull. The roentgenological signs of deep peri sinusitis or changes incident to chronic ethmoid sphenoid sinusitis consist in a cloudiness with a vague shading off of the anatomical details thicken ing of the posterior and Literal wall of the sphenoid and ethmord sinuses, and an area of increased density which indicates osteitis of the surrounding bone

This perisinusitis commonly extends into the middle fossa of the skull but may involve also the petrous and mastord portions of the temporal bones and even the posterior fossa. In some cases it is general and involves the base of the skull but in others is confined to the side in which there is a deep sinusitis Therefore the conclusion may be drawn that it is an extension of the inflammation directly from the affected sinus. The author suggests that an effect on the sella turcica resulting from an extension of the inflammatory process may account for unex plained anomalies which have been observed by roentgenologists for many years

ADOLPH HARTING M D

Watson Williams P Optic Neuritis Following Sphenoidal Sinusitis Located by the Differen tial Exploratory Test Brit M J 1928 II 1030

Definite optic neuritis with contraction of the visual fields has been known to result from chronie sphenorial sinusitis. The saving of sight depends upon drainage and disinfection of the infeeted sinus. When the sinus is normal anatomically its drainage is not difficult but when it is irregularly formed as when one sphenoidal sinus is relatively large and the other is relatively small the infected sinus may be

entirely musted The author reports a case in which the ocular disturbance began with iritis in the right eye Later the left eye became involved and a diagnosis of optic hounts was made At this time there was no nasal discharge and the nasal passages were negative On en lorhino copy the minute vessels at the arch of the choana were found to be injected Explora tion of the sinuses revealed pus in the left antrum The right antrum was sterile The sphenoidal sinus which was entered through the right nasal bassage contained blood but no organisms differential test demonstrated that the cannula in the right si le of the nose and the cannula in the left tide were both in the right sphenoidal sinus. The small left spheno: Ial sinus was opened and mucopus was evacuated Drainage was established through the noce

Three necks after the sinus operation the vision had improved and the ontic neuritis was less marked

Three months later all evidence of injection of the retinal vessels had disappeared WILLIAM I PICKETT M D

PHARYNX

Rieby O C Intramusculat Injections of Bismuth a Specific Treatment for Vincent's Angina Tri State Med J 1028 1 47

As infection with the spirochate of syphilis re sponds to treatment with arsenicals and also to in ections of hismuth it occurred to the author that hismuth might be equally effective against the

spirochate of Vincent's angina

He first made a local application of 10 per cent acid tartohismuthate of potassium. The result was good In December to 6 he first injected o 02 gm of potassium hismuth tartrate with hutyn The in jection was followed by permanent telief of the symptoms. The membrane disappeared and the smears became negative after twenty four hours

Right reports sixteen other cases with good results In all the smears were positive before the treatment and the symptoms ceased and the smears became negative within from twenty four to forty eight hours after the injection. The injection was made into the gluteal muscle. No local treatment was given

The author states that a number of other physi cians have had equally good results from this treat ment no failures being reported. The throat lesions apparently respond more satisfactorily than the in fection of the gums CHARLES W FREEMAN M D

NECK

Chesney A M Clawson T A and Webstet B Endemic Goiter in Rabbits 1 Incidence and Characteristics Bill Johns Hopkins Hosp Balt

1025 this 261 Webster B Clawson T A and Chesnes A M Endemic Coitet in Rubbits II Heat Produc tion in Goltrous and Non Goltrous Ammals Bill Johns Hopkins Hosp I alt 1928 xlm 278 Webster B und Chesney A M Endemte Golter in Rabbits III The Effect of the Administra tion of lodine Bull Johns Hopkins Hosp Balt

1925 Min 291

CHESNEY CLAWSON and WEBSTER In the course of experimental work on syphilis which was carried out on rabbits the development of goiter was noted in 486 of the animals

Brown I carce and Van Allen in studying a series of 645 apparently normal rabbits found the maximum weight of the thyroid gland to be 1 73 gm Marine has never ob erved a rabbit thiroid weighing more than 2 gm even in animals of tained from gottrous regions In the authors animals the gland often weighed considerably more than the maximum reported by other investigators. The maximum weight was 43 gm \ecrops\ was performed on most of the rabbits within two hundred days after they were acquired

There was nothing in the breed of the animals their housing or their diet which could have influ enced the production of gotter. The gotters were easily recognized by palpation and the progressive enlargement could be followed chinically. The mi croscopic appearance of the enlarged glands was on the whole uniform presenting hyperplasia with little or no tendency toward colloid formation. It was evident that the increase in the size of the gland had been brought about by the formation of many new follicles or an extension of those alreads in existence The epithelium was columnar in type and in many of the sections the foliacles were ill defined or absent being filled by the proliferation of epithelial cells However there were no in foldings such as have been seen in exophthalmic guiter in man

In many of the animals with enlargement of the thyroid the supragenal glands were also enlarged The authors state that the essential cause of the development of the goster has not yet been dis covered. Although most of the animals had been used for the study of experimental syphilis it was possible to demonstrate that syphilitic infection was not essential to the development of the condition In many instances the enlargement of the thiroid was progressive and the animal subsequently died without any demonstrable cause for its death but the extreme loss of weight was striking Neither the behavior of the animals nor the microscopic appear ance of the glands warranted the conclusion that the

condition was similar to Graves disease in man WEBSTER CLAWSON and CHESNEY The produc

tion of heat was studied in of normal and as gostrous rabbits

In the normal rabbits the average metabolic rate was found to be a 64 calories per kilogram per hour Variations in body weight occurred without appreciably altering the basal rate In the gottrous rabbits the average heat produc-

tion was 16 6 per cent lower than in the normal rabbits. The rabbits with the largest goiters showed the greatest depression in the metabolic rate

The heat production in the individual gostrous rabbits was practically constant over a period of one year provided there was no great change in the size of the gland

Certain animals which died and for whose death no cau e could be found showed an average increase of approximately 20 per cent in their metabolic rate during a period within two weeks of death

WEBSTER and CHESVEY When lodine was admin istered to rabbits with goiter the animals immediately became more alert and active the metabolic rate rose rapidly the body weight decreased and the heat production increased The behavior of the animals suggested strongly that an excess of thy road secretion had suddenly been elaborated and poured into the system. In normal rabbits the administra tion of an excess of today caused a temporary lowering of the metabolic rate and in the thyroid rland a diffuse outpouring of colloid with flattening of the alveolar epithelium

The severity of the reaction in the goitrous rabbits bore a direct relationship to the extent of the hype plasma The rodine tended to bring about involution of the hyperplastic tissues Areas of hypernavolution of colloid adenomata were observed but both diffuse and localized areas of persistent hyperplasia were noted these resembling respectively the so-called miliary and small encapsulated adenomata

R V B Saver VID

Else J E The Prevention of Recurrent Goiter Surg Clin \ Am., 19 3 vin 1375

Else states that he has recently been seeing more recurrences following operation for gotter than The reason he believes is that most formerly goster operations are not being done by surgrous especially trained in goiter surgery. He states that recurrence can usually be prevented by (1) careful pre-operative examination (2) early operation before permanent lesions have been produced (3) complete operation and (4) saturation of the thirtis with sodine before and after operation

Ficos M Moss MD

Final N S and Harmer D Radium Treatment of Intrinsic Carcinoma of the Laryan Bel M J 3038 N 886

After fifteen years expenence the authors bar come to the egociusion that radium should be build in the tissues whenever possible. They price fifteen cases of carcinoma of the laryus in thirteen of which the diagnosis was confirmed by merescopic examination

The operation advocated closely re-embles that of Bayet in which a large window is made in the thy road cartilage the framewo L left consrts of the lour margins The outer surface of the growth covered by the perichordrium is exposed and from five to ten platinum midium radium needles are suserted parallel with one another and sertical These needles do not penetrate into the growth of into the larvax When the growth is subglothe the needles may occas onally perforate the a r passage Great care is taken to prevent sepsis. Linea threads soaked in a 1 1 000 solution of flavine are attached to the needles tied together and huned beneath The wound 1 closed with double the muscles sutures every other one of which is ted and the in mainder of which are left untied until after removal of the radium. The incision is completely sealed with collodion. The other side is treated in the same way if it is involved by the growth. A low tracheotomy is performed last to prevent infection of the larvegtal

pauo w The needles are left in place for from four and a half to eight days Following the removal of the needles the wound is thoroughly irrigated with peroxide or flavine and then completely closed unles pus is present

The reaction is rather severe and as ociated with ordematous swelling and inflammation Frequently all signs of the growth have disappeared at the end

of six weeks the cords remaining symmetrically and equally movable. At this time the tracheotomy tube may usually be removed. The applicators used are platinum needles 1 or 2 cm long with a walf thickness of o c mm containing o c or r o mgm of radium. Ordinanty eight needles containing 7 mgm have been used for six or seven days. One third of the cases reviewed received heavily filtered \ ray or irradiation two or three days before operation. If it is true that lethal doses delivered to parts of a tumor in tire render the remainder of the growth more susceptible to moderate doses of irradiation radium needles or seeds may produce better effects than homogeneous irradiation of the tumor Lighter dos age with less danger of sepsis is superior to heavier dosage

Of the fifteen cases reviewed eight were in the early stages five were in the advanced stages and tao were moperable. In six of the eight early cases the growths entirely disappeared and the patients remained well for periods of from one to three years Of the five patients with advanced cancer one re mained cured for four years one developed a re currence in the tracheotomy wound a year later and died eight months later one developed stenosis and died of recurrence twenty one months later and one died of chloroform poisoning before the operation was completed. Of the two patients whose condition was inoperable having extended into the pharynx or the neck one remained well for two and one half years and then developed a recurrence and the other died after fifteen months probably of metastases

The authors state that the results are encouraging and that it is quite possible that radium irradiation may prove to be the best method of treating in timus carmoona of the lary or. A high incidence of cure can be expected in early cases in which the disease is found to be strictly localized to the vocal cords.

The results are far superior to those obtained by operation state the voice was completely restored in six of eight cases and the largue did by term to be weakend in any way. There is no doubt that is advanced cases radium should always be trued before larngectomy. If the disease is not completely eradicated within three months the radium terment should be repeated or an operation per found. In inoperable cases prolongation of the mass be oblained by the methods described.

A JAMES LARKIN M D

New G B A Two Stage Laryngectomy Surg Gynec & Obst 1928 vlvu 826

If it becomes necessary to remove the larvax be cause of a malignant growth it is of first importance to remove the growth completely and to guard the patient against reaction. The result should be a tracheal opening which does not require the use of a After the old two stage operation of Crile the patient was usually obliged to wear a trache otomy tube. The one stage operation of MacKenty, while overcoming this disadvantage and being tech nically more simple requires a great deal of post operative care from the surgeon and nurse two stage operation now used by New seems to combine the advantages of both of these operations without the disadvantages of constant close post operative care drainage tubes and many irrigations required by the one stage operation and the tracheal stricture following the old two stage operation During the three year period from 1925 to 1927

inclusive 172 patients suffering from carenoma of the lary are were examined in the Mayo Clinic and 64 of them were operated upon. In 17 instances thyrotomy, and excision were done and in 21 lary necessary was performed. This group included certain cases of extinustic leasons but not the epiglot to or posterioral elsions in which lateral phary gotomy according to the method of Torter might be performed. There were 5 explorations. Biopay was done the day previous to the operation in all cases in which lary angectomy was to be performed.

The points of interest in this method of laryn gectomy are (t) the use of local infiltration anaisthe sia for the first stage (2) the median line incision and splitting of the hoold bone (3) the formation of a barrier to infection by means of a clean wound (4) the opening of the trachea later to infect the wound and allow the patient to immunize himself and become accustomed to the opening (5) the performance of the second stage of the operation under paravertebral angesthesia and infiltration of the pharynx about eight days after the first stage (6) the complete primary closure of the wound of the neck without the usual drains or tubes the split tube being inserted below the tracheal opening (7) the application of gauze rolls laterally on the neck with pressure to eliminate the space previously occupied by the lary nx and to support the phary nx and (8) the primary healing of the greater part of the wound of the neck and a tracheal opening with out the use of a cannula in practically all cases

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Ingrar S Studies in Neurology II On Cerebellar Function Bull Johns Hopkins Hosp Balt 1928

In the author's opinion the cerebellum regulates mu cular tension in the body masses in all motor activities and neutralizes the forces of gravity and mertia acting on the different parts of the body masses in a physical sense It is an organ of regula tion for static and postural tone or in a broader sense, of equilibrium This theory is strongly supported by its vestibular connections and its known vestibular functions. In cerebellar ataxia the impaired limbs behave more or less like dead attach ments to the body showing that in cerebellar disease the faculty of neutralizing the forces of gravity and mertia is lost Accordingly the different aspects of cerebellar ataxia may be expressions of a disturb ance of a fundamental function

Spinocerebellar fibers end in the anterior and posterior lobes in limited areas. Its stimulation of these areas inhibition of the extensors of the extremities can be elicited. Physiological and ana tomical facts constitute the most important evidence of localization of cerebellar function. The author cites cases which indicate that the leg center is in the posterior portion and the arm center in the anterior portion of the homolateral labe

CILBERT C ANDRESON M.D.

Naffziger H C and Jones O W Late Traumatic Apoplexy California & Best 3fed 1928 xxxx 361

Late traumatic anonless was first described by Bollinger in 1841 According to Bollinger's by pothesis regarding the condition an injury of the head is followed by degenerative changes soften ing and necrosis in the brain stem and to a lesser extent in the cerebrum which in turn are followed by alterations in the walls of the blood vessels leading to secondary hemorrhages from decreased resist ance around the vessels and increased arterial ores sure and death from one to eight weeks after the

The possibility of the occurrence of late bemor shage is now g nerally recognized but the relation ship of trauma to vascular changes and of late harm orthages to trauma is as yet undetermined. It is generally believed however that there is a definite relationship between trauma and late central bruin bleeding

The term late transmatic apoplexy has been ap plied to a variety of conditions such as middle men ingeal hamorrhage and subdural bamorrhage fol

lowing a latent period thrombosis of a vessel and hemorrhage occurring years after injury These types of conditions do not belo the clinical group described by Bollinger which cluded only central brain bleeding especially h ing in the brain stem. More recently dela tral brain bleeding whether in the brain stem cerebrum has been classified a late tr apoplexy

The length of the latent period generally me from one day to eight weeks. When hamonh occurs after eight weeks it is more ant to be other cau.es. The limitation is of importance " for medicolegal purposes

The authors report three cases with marked a lanty of symptoms The pathological changes of the same type and located in the n in approximately the same area. They differed t

in extent and degree Late central brain bleeding of this type rare complication of head input) in accidents. In the cases of elderly working per late intracerebral hamorrhage has usually been sidered spontaneous with resulting injustice to injured person. The authors believe that when lowing a head injury an intracerebral ham occurs in an elderly person with possible changes after a short latent period with or " head symptoms the trauma and the must be considered as directly related

E. S. PLATT M

McLean A J The Transbuccal Approach to Encephalon tan Surg, 1928 laux m 95

An improved experimental technique i for the transbuccal approach to the entire ventral surface of the diencephalon mesercept metencephalon and myelencephalon Despite vascularity of the basillar for w the operation practically bloodless By the procedure d. the second fifth sixth and twelith of nerves have been cut at their source under d vision without damage to closely contiguous tures and many hypophy sectomies have been d Lateral column nerves of the medulla are readth exposed by a posterior fossa or cerebel. ploration The third and fourth nerve and pretime hypothalamus are more readily approached modified temporal route

Among the chief main advanta es of the t rique described are (s) an anatomically con approach to the base of the brain through a extreme vascularity (2) conservation and approximation of the nasopharvageal teum which interposes an intact phis olomical a brane as a bar to infection of the meninges (

avoidance b) light tamponade of the choairs of postoperative nasal discharge which favors infection and (4) anatomical closure of the soft palate in layers which favors healing and prevents improper sullowing due to dehiscence of the palata wound and associated with danger of postoperative aspara

too perumonal. The motality of the operation is lower than that of any previously described procedure. According to whether the motality of operative approach to the base of the hann is 20 per cent. Whereas according to Dandy and Renchest it is 15 per cent. The more considerable of the procedure of the procedur

E 5 Platt M D

Dandy W. E. Venous Abnormalities and Angio mata of the Brain Arch Surg. 1028 xvn. 715

Dandy reports seven cases of venous anomalies of the brain one case of pleuform angioma seven cases of cases with angiomata in the walls and five cases of cavernous angioma From these and similar cases reported by others he draws the following conclusions

1 The venous anomalies are of congenital origin.
They are manifested clinically by epilepsy and disturbances of mentality. They are frequently associated with other deformities of the brain.

2 Pleviform angiomata of the brain resemble

similar well known lesions in the spinal cord.

3. The estinates of a network of venous spaces in the dura communicating freely with the longitudinal many be a cause of local epileps beginning in the arm orige. The constant location of this network suggests that it is probably the congenital remains of an embry once dural circulation.

4 Angomatous cysts occur throughout the brain, but are most common in the esrebellium The use of the tumor embedded in the wall of the cyst sedantely, insignificant Interactannal pressure feeders rapidly because of the cvst formation and the common throughout the continual symptoms remained to the continual symptoms are usually discontinually from other types of cysts of the brained chinerally from other types of cysts of the brain of control from other types of cysts of the brain of chineral symptoms.

5 Castronus angomata sars in their gross preparance. They are scattered throughout the brars but seem to occur with greatest frequence in the fonotoparateal repon. The predominating sign of the control of the control

6 Hamorrhage from the tumor is a potential operative danger in all types of angioma

Both cavernous angiomata and angiomatous casts should be treated surgically by complete removal of the solid tumor together with a margin

of conliguous brain tissue. In both types there is a good prospect of complete cure with relatively little operative risk. Eric Oldberg M D

Cushing II and Boyle W R Electrosurgery as an Aid to the Removal of Intracranial Tumors Sure Grace & Obst 2028 xlv1 751

In the removal of intracranial tumors Cushing uses a perfected apparatus developed by Bosse who employs currents with a shift of direction of from to a 300 000 times a second. The apparatus is so arranged that this almost inconceivably rapidly alternating current can be modified to deliver debidrating cutting or heating effects through a scool levil.

single lead The many details cited in the article to explain the difficulties which grose and were finally con quered in the practical application of this method to neurosurgers cannot be included in an abstract Suffice it to say that the principle found most gen erally useful was the removal of scoops of tissue from the center of the tumor by means of a loop of were electrode until only a shell remained and then removal of the collapsed shell. However the removal of tissue alone is not the only useful function of the apparatus By means of the coagulating cur rent annoying bleeding surfaces may be dried up I torn vessel held between the blades of forcers may be effectively sealed by shooting a dehydrat ing current along the forceps

The article contains a report of eleven cases in cluding vascular tumors of the skull meninginguist aglomata and acoustic neuromata which were treated the lectrosurger. Two of the patients see cumbed to the effects of their disease and one was undoubtedly the victim of interpretence with method but the remaining, eight were curred more effectively and more certaining) than experience undicates would have been the case of any other treatment had been used. Low Daviers we Deep vice the case of any other treatment had been used. Low Daviers we Deep vice the case of t

Cordes E Osteoplastic Endothelioma of the Dura (Das osteoplastiche | ndotheliom det Dura) Mill a d Grengb d Ucd u Chr 1923 zh 32

A woman forty two years old became ill suffurgrane on the left sule vomiting and vertigo Mice this attack she was free from a supptions for a considerable time but later a tumor appeared in the left temporal region and caused protrusion of the fit eye and headache. A longsy spectimen showe I the neophasm to be an osteoplastic endothelioma. M operation the bieding was so severe that only pecess of the tumor could be removed. Because of the patients we askened condition the dura was not open the country of the patients we askened condition the dura was not open the country of the patients we takened condition the dura was not open the country of the patients we have been dealer the country of the patients we have been dealer the country of the patients when the patients we have been dealer than the patients were presented to the patients were particulated to the patients when the patients were patients and the patients were patients and the patients when the patients were patients and the patients are patients are patients and the patients are patients are patients and the patients are patients are patients and the patients

A woman thirst three years old was injured by an iron pole. At first there were no ill effects from the blow but four weeks later a swelling developed over the right ear. The neof lasm grew slowly and three vears later caused severe headache. M examination

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Ingvar S Studies in Neurology II On Cerebellar Function Bull Johns Hopkins Hosp Balt 1923 xbn 338

In the author a opinion the cerebellum regulates muscular tension in the body mas en an limitor activities and neutralizes the forces of gravits and neutral acting on the different parts of the body masses in a physical sense. It is an organ of regulation for static and postural force or in a broader sense of equilibrium. This theory is strongly supported by 12 westbody's consections and its known vestibular functions. In cerebellar status the insured that the state of the control of the state of the death of the control of the state of cerebellar status may be expressions of a disturbance of a fundamental function.

Spinoereteellar fibers end in the antenor and posteroic lobes in limited a ress. By stimulation of these areas simbibition of the extensions of the extensions of the extensions of the extension of the cluster. By passing and an atomical facts constitute the most important evidence of localization of certeellar function. The author title cases which indicate that the leg center as in the most of the processing of the proportion of the boundariest lobes on the authorities.

GILBERT C ANDERSON M D

Naffziger II C and Jones O W Late Traumatic Apoplery Cal forms & Hest Med 19 8 xxxx

Late traumatir apoplers was first deterabed by folianger in 1891. According to Boilingers is pothesis regarding the condition an injury of the bead is followed by degenerative changes softening and necrosis in the brain stem and to a lessest extent in the occeptum which in turn are followed; and in the walls of the blood set of the lossest by alterations in the walls of the blood set of leadings to secondary themorety-age time research and earth from one to eight weeks after the mur.

The possibility of the occurrence of late harmor thage a now generally recognized but the relation ship of trauma to vascular changes and of late hem orrhages to trauma is as yet undetermined it generally believed however that there is a definite relationship between traums and late central brain bleeding.

The term late traumatic apoplexy has been ap plied to a variety of conditions such as middle men ingeal harmorrhage and subdural harmorrhage folJosing a latent period thromboss of a corcular vessel and humonrhage occurring pean after as injury. These types of conditions do not belong to the climated group described by Bollagger which a cluded only central brain bleeding expecult byted any in the brain stem. More receify delayed on any of the bleeding whether in the brain stem of the bleeding whether in the brain stem of the scribbing bleeding whether in the brain stem of the scribbing whether in the brain stem of the exception.

The length of the latent period generally range from one day to eight weeks. When hamorbage occurs after eight weeks it is more up to be due to other causes. The immatation is of monetative many

for medicolegal purposes

The authors report three cases with marked simlantly of symptoms. The pathological charges were of the same type and located in the right hem plenin approximately the same area. They differed only

in extent and degree

Late central brain blerding of this type in set are complication of head injury in congessible accidents. In the cases of elderly working peters late intracerbella kinnorlage, has itsually been on safered apontaneous with resulting injustice to the injury and interest and injury an intracerbella of the injury an intracerbella of the injury an intracerbella of the injury and interest below that when the changes after a boort latest period with or warrant changes after a boort latest period with or with head symptoms the trauma and the himsoftage must be considered as directly related

E S PLATE MD

McLean A J The Transbuccal Approach to the

Encephalon Inn Sieg 1928 ixxx ut 930 An improved experimental technique is presented for the transbuccal approach to the entire medioventral surface of the diencephalon mesencephalon metencephalon and my ejencephalon. De pile the vascularity of the basillar fossar th operation is practically bloodless By the procedure described the second fifth sixth and twelfth cransl nerves have been cut at their source under direct vision without damage to closely contigious struc tures and many hypophysectomies have bee done Lateral column peries of the medulis are more readily exposed by a posterior fossa or cerebellar ex ploration The third and fourth nerves and prepon time hypothalamu are more readily approached by a modified temporal route

Among the chief main advantages of the tech inque described are (1) an anatomically controlled approach to the base of the brain through a field approach to the base of the brain through a field approximation of the mempharyageal management which interposes an inter physiological monoproper as a not not feel to study of the member as a bar to infection of the meninges (3) the

basal regions and therefore first attack the more ex posed marginal fibers situated in those regions the aunillomoter pathways This explanation holds also for the common and early appearance of ptosis and can readily explain the slowly developing and saned changes in the pupils which often precede complete rigidity Such changes reflect the proc esses in the basal subarachnoid spaces along the optic pathways The Argyll Robertson phenomenon rarely occurs in the absence of a luetic cause hut when it does the hypothesis suggested by the author offers an explanation

GITTERT C ANDERSON M D

SPINAL CORD AND ITS COVERINGS

Stookey B Tumors of the Spinal Cord in Child hood Am J Dis Child 1928 ELEVI 1184

Of 164 tumors of the spinal cord for which oper ation was performed at the Neurological Institute New Lord in the period from 1910 to 1926 8 oc curred in children twelve years of age or under Six of the 8 spinal cord tumors in children were operated spon since 1922 The increase in the number of such tumors found in children in recent years is stirbuted by the author to improvement in the diagnosis due mainly to special tests such as the lumber manometrie examination of the spinal fluid

The postmortem statistics of Schlesinger indicate that acoplasms of the spinal cord are not so rare in child en as appears from the literature In 251 collected cases of spinal cord tumor Schlesinger found 33 m which the neoplasm developed before the age of nine years and twenty seven in which it developed between the ages of ten and fifteen years

More eareful neurological examination and the use of the special tests will allow the recognition of a greater number of spinal cord tumors in children during life As the neurological signs are frequently 12gue the special tests are of great importance In some cases of tumor of the spinal cord in children the condition has been treated as a birth injury and in others as an obscure disease of the cord

The tumors reviewed by the author are classified into 3 groups (r) extradural neoplasms mainly within the verteb al canal (2) intradural neoplasms and (3) paravertebral rumors which had invaded the vertebral canal Tumors of the third group do not properly belong with tumors of the spinal cord and do not present any difficulty in diagnosis

There were no tumors from either the meninges or the nerve roots although in the adult the arach noid fibroblastoma and permeural fibroma are the

most common types of cord tumors

The average ages of the children with primary extradural sarcoma and fibrosarcoma was nine and two-tenths years while that of the children with tamors arising outside the vertebral canal and in vading it secondarily was three years. The ages of the children with intramedullary tumors aver aged eleven years. In the cases of intramedullary tumor the average duration of the symptoms was

four and six tenths years (greatly increased by the presence of symptoms in I case for eleven years) in the cases of extradural tumor twenty one weeks and in the cases of paravertebral tumor ten months

In a of the a cases of intramedullary tumor the presenting symptom was pain in the lower back radiating from both shoulders and followed by weak ness of the right arm in another it was weakness of both legs followed by pain in the neck and the lumbar region. In the third it was tilting of the head toward the right and dragging of the right Variability in the presenting symptoms is common in cases of neoplasm of the spinal cord even when the same segment is involved as the long fiber tracts are so compactly arranged that the slightest variation in the compression may involve an entirely different tract

In all of the a cases of extradural tumor the pre senting sum was weakness of the legs the ventro lateral position of the tumor eausing pressure on the pyramidal tracts and the ventral motor columns In all there were also marked pyramidal tract signs such as patellar and ankle clonus Babinski's reflex and absence of the abdominal reflexes. In rease in spite of the pyramidal signs and double ankle clonus there was marled flaccidity of both lower limbs which is usually indicative of severe pressure and a poor prognosis but recovery was as rapid as is usual in cases with spasticity

In cases of intramedullary tumor the sensory changes are likely to be more marked in the derma tomes supplied by the segments at the level of the tumor than in the more distal dermatomes. The dorsal and ventral muscular masses and their im mediate connections are also involved. It is there fore common to see marked sensory changes at the level of the lesion with atrophy and fibrillation of the

muscles supplied by the segments involved Two of the cases of extradural tumor showed a definite sensory level but in the third there were no sensors changes until a week before operation and no sensory level appeared even after lumbar pune ture The position of the tumor in this case was de termined from atrophy in the left shoulder girdle and the extensors of the wrist and finge s Agae of the patients with an extradural tumor complained of pain Pain of long duration referred constantly to r or a segments may indicate that the tumor arises from a nerve root but pain referable to one side of the body or the greater part of an extremity is not ancommonly due to pressure on the spinothalamic tracts The importance of regional scoliosis and en largement of the vertebral canal in cases of tumor of the spinal cord has been emphasized by the author in a previous article

When the lesion is above the sacral segments bladder and rectal incontinence usually indicates severe compression of the cord

A sign of importance in the diagnosis is exaggera tion of the symptoms following withdrawal of the spinal fluid by lumbar puncture which allows the tumor to exert direct pressure on the cord Lumbar

three years after the accident a hemispherical swell ing which was not sensitive to pressure and not fixed to the skin was found in the right temporal region In the roentgenogram there was a diffuse shadow with a circular transparent zone around the edge The tumor was chiselled out and removed with a piece of attached dura Because of the patient's collapse plastic covering of the wound was not possible liter the operation the patient had an attack of epilepst Tuo years later she was well Examination of the specimen showed a bons exos tosis and an endothelioma which had affected mainly the dura but had involved also the lymph tracts of the thickened bone as far as the periosteum. The thickened hone showed in its center an area of apparently normal structure from which the growth had proliferated radially both internally and ex ternally

In the author's opinion the point of origin of these tumors was the dura where the heaviest tumor mass in the form of a flat plate was found From here the tumor developed along the lymph tracts of the haversian canals to the surface of the skull and then spread out in a thin layer. There was no tendency toward infiltration of the galez or the brain the growth apparently being limited to the segion of bony tissue As a result of the infiltration of the bone tissue there was an irritation of the bone sub stance which led to hyperostosis

Because of their infiltrative growth endothelio mata are to be classed with malignant tumors However their malignancy is relatively slight as is evident from the fact that they show little tendency to recur even when they are not completely removed. They develop most commonly in the an terior part of the skull

In the differential diagnosis the scentgen demon stration of hyperostosis which usually develops as an endostosis is usually decisive. When hyperosto. sis is found the possibility of an intracranial tumor should always be considered even when there are no

brain symptoms

The treatment of choice is operation. In bones with a very rich blood supply it is best to remove the exostosis gradually The growth usually does not extend toward the brain. As a rule the opening in the skull made at operation gives sufficient de compression. Even when the operation is not radical the prognosis is favorable RO EXSURG (Z)

Gurdilan E S and Williams H W The Surgical Treatment of Intractable Cases of Biepharo spasm J Am M tss 928 xc1 2053

The authors report three cases of blepharospasm in which no cause could be determ red for the con dition The first was treated by neurectorny followed by the injection of alcohol In the others the treat ment consisted in the non-operative injection of alcohol into the upper branches of the facial nerves In the first case there was complete relief lasting for six month and the treatment was repeated success fully on the return of the symptoms In the two

other cases the symptoms were relieved moon pletely but satisfactorily

In open neurectomy it is possible to cut or inject as many or as few of the branches as desired and to avoid the parotid gland and duct. The simple in ec tion is quicker causes no scar and gives relief if it is thoroughly done but Is less sure and safe. The relief from both procedures is only temporary but the treatment can be easily repeated when peressary

The author method is preferable to injection of the entire nerve in the stylomastoid foramen as it does not paraly ze the whole side of the face and it does not remove the entire nerve supply of the orbi cularis muscle

Organic blepharospasm is discussed briefly 3 distinction is made between the true spasm and a pe ALBERT S CRAWFORD MD

Ingrar S On the Pathogenesis of the Artill Robertson Phenomenon Bull Johns Hophret Hosp Balt 2028 xli 1 363

Little is known of the pathology of the 1 gy" Robertson pupil It occurs in syphilis of the nervois system particularly cases of tabes and pareus a d is often a premonitory symptom noted years before other manifestations of the condition Suplimite meningitis is thought not to give this sign so often is the true so called luetre diseases of takes and parest. The latter are not singly associated with a menti gitic process

In explanation of the common association of the sign with lues it is not necessary to have recourse to the theory of toric predilection. There is justifica tion for the assumption that the pupillomotor and visual pathways follow each other closely through the optic nerve the chiasm and the optic tract In the posterior part of the diencephalon the pur lomotor pathway diverges from the vi uni tract and at the level of the generalate bodies it runs in the anterior arm of the quadriger inate body proceed ang along the lateral border toward the midline However it has not been clearly shown how the impulses reach the oculomotor nucleus The effetert arm of the arc is better known. It is fairly certain that certain small cells in th Edinger Bestphal nucleus are centers for the innervation of the musculature of the sphiniters

Throughout evolution the optic pathways remain on the surface of the diencephalon Therefore from comparative anatomy and certain research in con nection with the posterior spinal roots we have right to conclude that fine fibers on the surface represent the pupillomotor pathways a conclusion of great importance to an understanding of the pathogenesis of pupillary disturbances in meningite processes involving the surface lavers of the dien cephalon Many investigator agree that in degen eration of parench, matous nature the changes begin in the marginal regions of the or tic system and this has been demonstrated by the author

The meningest changes associated with the meta luctic diseases of the brain have a preduction for the Angeluce thinks that after paralyses of the cerv cals sympathet there is first a datatation of the vesclis followed by hyaline degeneration of the walls and then a contracture of the lumen with subsequentlack of nutntion and resulting atrophy. He believes this proces to be the cause of hemi atrophy of the face. In the opinion of Heiligenthal herni stophy of the face is due to a trophy of the fatty

The author reports the three most interesting cases of his series. In one of these the cause of the condition was diagnosed as syringomyelia. This was the case with the Klumpke type of paralysis—paralysis of the inner side of the forearm and of the small mostles of the hand

The authors findings in the cases reviewed and his conclusions are hriefly summarized as follows

Paralysis of the sympathetic nerve is more frequent than is indicated in the literature

2 In only one case was the cause of the paralysis determined

3 The difference between the near points of the two-yes was greater in those with the most complete s) ndrome
4. The there are difference between the result of the there is not the result of the result of the there is not the result of the re

4 The average difference between the pupils was 18 mm before the instillation of cocaine and 3 mm afternard

5 The width of the palpebral fissure averaged 3.5 mm less on the affected side

6 There were no visible fundus changes
E S I LATT M D

Buelhring E Malignant Neuroblastoma of the Sympathetic (Ueber das hoesartige Neuroblastom des Sympathicus) irch f paik Anat 1928 cakyul taa

The case reported was that of a four year old boy increaspic cammation at autopsy showed and by increaspic cammation at autopsy showed and by wide all the developmental stages of the formative will of the sympather via Genes cell clumps with narie which could hardly he isolated and without I taceillular substance and in other places where the could have been considered by more loosely rosette formation with a few could be substance and most places where the could have been considered by the could be substance and the substance with the could have been appeared by the could be substance and the substance when the substance will be substanced by the subs

Braeucker Surgery of the Sympathetic in the Extremittes (Linges zur Sympathicuschrungse an den Extremitaeren) Zentralbi f Chir 1928 h 83x

In a case of excessive sweating of the hands and feet which had been treated conservatively without with the same and the same and the same and the same and the principal peripheral nerves showed the trouble to be obtained origin. It was determined that the central excitation for the left hand rain over the rain communicants from the eighth cervical to the first density and the excitation for the right hand rain over the rain communicants from the eighth cervical to the first density and the excitation for the right hand rain over the rain communicants from the seventh over the rain communicants.

cervical to the first dorsal Resection of eighth cervical to first dorsal ram communicants on the left
sade resulted in a complete cure. A few months late
a corresponding operation was performed for the
feet the ram communicantes from the fourth fumbar to the second sacral heing divided. The operation in the cervical region was performed one year
ago and the operation on the ganglia of the lumbar
sympathetic nine months ago.

The author determined also the skin areas belong ing to the individual raim communicants: He found that the raimus communicants from the seventh ecrucial supplies the radial portion of the hand and the first two fingers the raimus communicants from the righth certical supplies the last three fingers and the middle of the palm and the raimus communicants from the first dorsal supplies the ulnar part of the hand. The supply in the vasomotor paths also cor responds to these secretory dermationes.

By determining the sympathetic dermatomes it is possible to limit operation to the minimum in the treatment of secretory and vasomotor disturbances in the extremities and to cure such conditions by dividing only the rami communicantes belonging to these skin segments. Stail. (2)

Rieder W. Investigations by Capillary Microscopy in Perlarterial Sympathectomy (Capillarmiko skopische Untersuchungen hei penarteneller Sympathektome) irch f klin Chir. 1928 cl. 136

Capillary microscopy and tests of the capillary reflexes with various stimuli confirm the theory that removal of the so called periarterial tissue has no influence on capillary reflexes. Observations at operation under local amosthesia showed that arteries are not equally sensitive to pain at all sites. There are not equally sensitive to pain at all sites. There are not expected in the pain at all sites are the area of the paint of the paint and the paint and ing or by electrical intitation whereas other areas are extraordinantly sensitive to pain.

After resection of the cervical sympathetic or removal of the lowest cervical gaughton there could be observed an increase in the visible capillaries which later disappeared. The circulation was continuous in all of the capillaries. In Ray mand 8 discrete the spasma and stress which were notice theorems of the capillaries and the capillaries are capillary reflex to mechanical irritations was precious distributions.

MISCELLANEOUS

Nedelmann E. A. Malignant Tumor of the Thymus with Peculiar Metastasis into the Central Nersous System. A Contribution on the Question of Tumor Metastasis by the Cerebro spinsal Fluid Noute (Zur klunk, eines malignen auf System of Metastasis of Metastasis Metastasis Pluid Noute (Zur klunk, eines malignen spinsal Fluid Noute (Zur klunk, eines malignen zur handen von der Person eine Person

A boy three and a half years old became suddenly ill with headache vomiting and great prostration and when seen hy the author on the twelfth day puncture is more likely to change the neurological signs in cases of extramedullary or extradural tumor than in those of intramedullary tumor

In examination of the spinal fluid vanishechromis is not seen unless there is a marked increase in the globulu and total protein content. As the diagnosis of tumor of the spinal cord is now made early xin thochromia is found at the Neurological Justitute less frequently today than formerly. The author emphairies that lumber manometric studies and estimations of the total protein content of the cree brospinal fluid should be made in the case of every colld believe of to have a lesson of the spinal cord.

Extradural sarcoma and furocarcoma are thought to arise from the pendural tosue within the wertebral canal though at times they appear to invade the canal secondarily. When they are circumscribed and can be completely removed the postoperative

results are good.

Intramedullary tumors occur most frequently in the cervical region. This sugn ests a congenital ensuing similar to that of such defaultely congenital lessons as syringomietia which is most common in the lower cervical segments. Extradural rumors though frequent in the cervical region are found most commonly as the thoractic region.

Estradural tumors may cause marked symmetrical compress ion of a number of here e roots and thereby produce atrophy and segmental sensory disturb ances suggesting an intramedullar; lesion. In all of the geases of estradural tumors revewed the level of the lesion was determined correctly but in only a was the nature of the process diagnoses.

In recent years the staff of the Neurological Institute has attempted to make a pre operative diag nosis of extradural neoplasm extramedullary intra

dural neoplasm and intramedullary neoplasm.
The operative results have been gratifying especially in cases of etradural tumors. Even in cases of innitrating tumors of the intramedullary group.

improvement has been obtained. In all cases of estradural sarroma radiat or is given in the hope of preverting recurrence whether or not removal has been apparently complete. No recurrence has developed in the 4 cases reviewed

When there is doubt as to the diagno is of tumor of the spinal cord an exploratory laminectoms should be performed ISP ATT MD

PERIPHERAL NERVES

Platt II The Operative Treatment of Traumatic Ulnar Neuritis at the Elbon Surg Grac & Obst 1918 alvu 822

For mild forms of ulma neutrits the author recomments introduction of the fellow po.d as this is often sufficient to the fellow po.d as this is often sufficient neutrition. For severe and the fellow possible of the severe to the fellow possible of the severe to the fellow possible of the fellow in which there is uncongruity between the nerve and its bedbe advocates his operation of anterior transposition of the ulmar neutrition. With the patient recumbent the upper arm in placed vertically and the elbow and winst archity-flexed. An inverted 5 km 59 ps at be 1 red bash. By cutting above the elbow bread the not the internal epicondyle at the elbow nor the risk major of the groon and below in the course of the nerve. The nerve is first freed above and the below in the grown in the whole extent of the wond and is drawn forward over the epicondyle 1 we below made for it by dwinding the appointers of the rem made for it by dwinding the appoint so the them made for it by during the appoint so the rem man flevor origin from the epicondyle. The nerve a placed in this guiter and the several layer are robed.

After the operation the elbou is slung in moderate flexion for ten days and movement of the fingers is encouraged immediately.

In over 100 cases the results were most grat fring LEO M DAY, port M.D.

SYMPATHETIC NERVES

Searlett H W. The Frequency of the Claude Bernard Horner Syndrome 4m J Opin 19 1, 12 961

The author renews sixteen cases of ornical sympathetic nerve lesions producing the Bernard

Homer syndrome

The most rounton causes of the conducts are cervical rules enlarged cervical glands are min mediastical turnor rumor of the cervical cord is volument of the apicas of the lung and upons to the branchial pleans roots. Fance at his report oculopopullary is emptons in three cases of didden militariting endotherisms of the plear and one case of primary carcinoms of the upper lube of the lung pleasing the control sympletics.

was common

In all of the cases reviewed enophthalms pto a
and narrowing of the pulpebral fiscure were presulin one case miniss was absent possibly because
fibers for the dilator muscle of the iris leave the
clinospinal center by more than one pathway and

therefore are not always completely involved Hypotony was found in more than one third of the to at the ten ion averaging 3 5 mm, less than that of the other eye. De Schweinits sug ests that vascular or touscular changes may be the cause of

the hipotomy.
In the affected eve the earr point a strated a mile to the affected eve the earr point. But still structure the structure of the earr point of the earr point of the order of the earr point of the order of the content of the earr point of the earr poi

Hemi atrophy of the face occurred in nine cases umlateral flushing in five and the Klample type of

paralisas un ont

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Braeucker Surgery of the Sympathetic in the Extremities (Eniges zur Sympathicuschrurgte an den Fatremitaeten) Zentralbi f Chir 1928 lv 831

In a case of excessive sweating of the hands and liet which had been treated conservatively without its which had been treated conservatively without success for years a test injection of novocain into the principal peripheral nerves showed the trouble to be of central origin. It was determined that the central excitation grief is held and earn over the rain communicanties from the eighth cervical to the first dorsal and the excitation for the right hand rain over the rain communicanties from the sweath over the came communicanties from the sweath.

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After resection of the cervical sympathetic or removal of the lowest cervical graption there could be observed an increase in the visible capillance which later disappeared. The circulation was continuous in all of the capillances. In Raynaud 8 disappeared and the capillances in Raynaud 8 disappeared and the same the companion of the capillance in the capillance of the

MISCELLANEOUS

Nedefmann E A Mallgaant Tumor of the Thy mus with Peculiar Metastasi Into the Cen rall Nervous System A Contribution on the Question of Tumor Metastasis by the Cerebro Thymastwoors mit repeating the Cerebro Larizatien expert in the Contribution of the within the Contribution of the Cerebro within the Contribution of the Cerebro visit metastasic programme and the Liquid Trage dec Gecka within the Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro According to Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro Cerebro (Cerebro Cerebro (Cerebro Cerebro (Cerebro Cerebro (Cerebro Cerebro Cerebro Cerebro Cereb

A boy three and a half years old became suddenly ill with headache vomiting and great prostration and when seen by the author on the twelfth day showed a left facial parests and other signs of in volument of the nervous system. Hence Medius a disease was suspected at first, but the spinal fluid contained 2 450 cells per cubic millimeter, and among these there were indisputable tumor cells.

In the further course of the condition there appeared meningitic symptoms and phenomena of functional impairment of the hasal cranial nerves and of spinal cord injury particularly in the cauda couna. Eight weeks after the appearance of the

first symptoms the child died

Autops revealed a malagrant tumor of the thymas with embag other partial and a secondary man with embag other partial as a secondary from the point fee in part the third part of the partial part of the part of

Woollard II II. The Comparative Anatomy of Epicritic and Protopathic Sensation Med J Australia 1918 is 544

After reviewing the objections to Head's throry of enicritic and protopathic sensation the author mar

shals facts from comparative anatom, to support this theory. He believes that in the animal scale the repthian nervous system is the first to show evidence of the segregation of the epictitic and protopathic systems in the reptile there are a con iderable num her of neuro-contibetal nerve endors in the stin

among the free naked endongs in the deeper ends. The reptile is the first retative in which determine the naked desire postenor columns end in nuclei corresponding to the following the columns are consistent of the columns are c

thalamsa by fibers from the epicinte system. Or responding changes in the erebellum ind sudem corpus stratum etc. are described all of which Woollard cites in support of Head sthoory Woollard then shows how these early beginning in the repulle grow to ever increasing important in the animal series in correspondence with the

development of the epicritic system
LEO M DAVIDOST M.D.

SURGERY OF THE CHEST

CHEST WALL AND BREAST

fselin II Postoperative X Ray Treatment of Can eer of the Breast (Die Nachbehandings des ope netten Brustkrebses durch Y Strahlen) Schuer med Wichnicht 1028 lyus 603

Handley demonstrated that cancer of the breast extends almost exclusively by way of the lymphatics He called this continuous extension permeation Iselin believes that the treatment of cancer of the breast is surgical but he agrees with DeQuervain

breat is surgical but he agrees with DeQuervam and Hote that in early cases the procedure may be limited to amputation of the breast with the skin flaps centering about the tumor wide excision of the pectoralis facia and clearing out of the avilla. In advanced cases he removes the pectoral muscle

As soon as possible after the operation in the author a cases aystematic irradiation of the entire chest clavicular fossæ and epigastrium is done as a prophylactic measure In order to protect all sound tissues including the skin and blood a weak filter of 1 mm of aluminum is used. The dosage is meas ured in Sabouraud units as Isclin has seen the biological effectiveness and reliability of this method demonstrated in numerous cases. One Sabouraud unit is given at a treatment. The raying is begun in the supraclavicular and infraclavicular fossæ and in the axilla both of these fields being treated from in front and from behind In the raving from in front from 2 to 3 mm of aluminum and a distance of 24 cm are used whereas in the raying from behind from 3 to 5 mm of aluminum and a distance of 50 cm are used. Only after the lapse of one week is the field of operation irradiated. In the treatment of this area a filter of s mm of aluminum and a dis tance of 24 cm are used. The lower part of the thest the flank and the entire back are treated in the same way

After a period of at least three weeks the affected size of the Chest are translated field by held with the use of a filter of or a more of aluminum. The unaffected after the size then treated in the cases of thin patients a district of the manifected size of the patients a size of the manufacture and the size of the patients a size of the size of the patients at the size of the patients are the size of the patients at the size of the patients are the size of the patients and the size of the patients are the size of the size of

By this \ ray treatment the results of operation in the surgical clinic of Basle have been greatly im proved. In cases treated during the period from

spot to 1973 without irradiation, freedom from recurrence and metastasis was obtained for three years in 18 per cent and for five vears in 28 per cent, whereas in cases treated with irradiation (twelve operated upon radically, eighteen not operated upon radically, at cases of recurrence with metastases to the lymph glands) a cure was obtained for three vears in 30 per cent and for five vears in 30 per cent in 1971 seven of the twelve patients who were treated in 1972 were in perfect health two had died from carcinoma and two had died from other causes From the point of view of prognosis the medullars carcinoma was found to be the most beings and the serrhous carcinoma the most malignant.

BRUNNER (Z)

TRACHEA LUNGS AND PLEURA

Irioleau W If Tracheotomy Technique and After Care of the Patient Surg Gynes & Obst 1028 xlvn 848

In the author's cases in which tracheotomy is to be performed the operative field is infiltrated with 34 per cent novocum if time permits. The neck is slightly extended and a transverse incision from 4 to 6 cm in length made about 2 or 3 cm above the sternoclavicular sunction After separation of the fascia and muscles the tracheal incision is made between the fourth and fifth or the third and fourth A low tracheotomy is preferable to a high tracheotomy as it is more comfortable and heals quickly and a high tracheotomy may cause per manent mury to the larvax Before inserting the tube Prioleau allows the patient to take a few deep breaths in order to cough out the accumulated mucus or he removes the mucus with an aspirator The muscles fascia and skin are approximated with interrupted catgut sutures and a dressing is applied around but not over the tube

After this operation there is more need for constant and expert attention than after any other surgical procedure. When feasible the tube should he removed at the end of about three hours. If the pattent is unable to take nourishment normally a stomach tube should be introduced for three of four days. Grozer R. McKurry M.D.

Mather J II and Coope R The Accessory Lobe of the Azygos Vein Brit J Ratiol 1020 1 481

Most roentgenologists have been puzzled when examining roentgenograms of the chest by the occa stonal finding of a fine convex line beginning at the right apex currying downward and inward toward the mediastinum and ending just below the level of the costal cartilage of the first rib in a dense comma shaped shadow.

Bendick and Wessler were able to study at autonsy two lungs in which they had noticed this shadow in roentgenograms made during life They were able to show conclusively that the fine convex line marks off an accessory lobe of the right lung known as the lobe of the azygos vein

Variations in the pulmonary fissures are known to be fairly common The term azygos lobe' has been

applied to several accessory lobes

The accessory lobe of the azygos vein is formed by the partial cutting off of a portion of tissue from the upper lobe of the right lung by a sort of meso azygos to the free edge of which the azygos vein hes. This lobe is rare HOWARDA MCKNIGHT M.D.

Cratoord C Two Cases of Obstructive Pulmonary Embolism Successfully Operated Upon Acia chirurg Scand 1928 law 172

Following a report of two cases of pulmonary embolism in which Trendelenburg's operation was performed successfully the author states that Trendelenburg's operation is a typical procedure which in most cases of embolism can be quite well carried out in the time at the surgeon's disposal Interference with the left pleura is not necessary and should be avoided. After removal of the em bolus all cut vessels in the chest wall should be care fully tied. The rubber tube around the vascular pedicle should never be pulled tight its purpose is to pull the artery into the would

The incision in the aftery should be about 2 cm long. The stagnated blood should be let out in order to unload the heart and to evacuate any thrombi that may be lodged in the heart or in the vessels peripheral to the heart. A suction arrange ment is of great aid in the operation. Injections of adrenalia directly into the heart and aorts are of very great importance

Nystrom G Esperiences in Three Cases in Which the Trendelenburg Operation Was Done for Polmonary Embolism (Erlahrungen in drei nach Trendelenburg openerten Faellen von Lungenembo

lie) Acts chirurg S and 1928 Isiv 110 The first case reported was that of a woman forty

eight years of age who was operated upon for hamorrhoids and died thirty hours later The second was that of a woman forty hve years of age who was subjected to cholecystectomy and died five hours after the operation. The third was that of a man thirty five years of age who was subjected to appendectomy and is now well In the first case a typical Trendelenburg operation

was done for the removal of the embolus. In the others an extrapleural exploration was done in one instance after resection of the sternal border (uu satisfactory) and in the other after resection of the third costal cartilage in addition to the sternal

border (good exposure) In one case small ruptures had been produced in the intima of the pulmonary aftery by too right application of the tourniquet

In Case s the blood stream was cut off for street accords in Case 2 for sixty five seconds and in Case 3 that of the patient who was saved for one bundred and four seconds

In the last case the embolus was removed with the and of a specially constructed suction tube

In Cases a and 3 adrenshin was injected into the norta to sumulate the heart

Eloesser L Congenital Cystic Disease of the Laing Surg Clin A Am 1928 vin 1361

Elocaser reports a case of congenital cystic disea of of the left lung in a boy thenty years of age. He quotes Sauerbruch as suggesting that this anomaly may be caused in an early stage of development by a duct of Cuvier which stretching unusually sharrly across the hilum of the embraonal lung bud con stricts and presses upon the latter. The more frequent occurrence of bronchiectatic anomalies on the left aide may be explained by the relation between the right and left ducts of Cuvier

In congenital evitic disease of the lung sevent attacks of dyspuces coanosis and choking rera and frequently terminate fatally. When there is a free communication the s mptows and signs will be those of a wide open internal pneumothorss When there is no communication at all the cist usually a smaller one contains a mucous secretion and causes the varied symptoms of a benign inits thoracic tumor or an abscess. In some cases how ever the condition is symp omless. There is often a cough with hitle or no expectoration

The signs are those of a preumothorax with or without pressure and with mediastinal deviation if the cast is open. If the cost is closed the phenomena may be those of intrathoracic tumor empiems or abscess Fever and tomets depend upon the present

of injection

The diagnosis is difficult and often impossible When a communication with a bronchus emis rocutgenogram made with hipsodol will prove that the ori hes in the lung and not in the pleurs and that the condition is a cust and not a pneumorboras If the cyst contains air but does not nemonstrable communicate with the bronchus the presence in the roentgen films of a shadow corresponding to an interlobar septum will reveal the nature of the con d tron since in pneumothorax and marked collapse of the lung the interlubar septum would also be coharsed

The condition must be differentiated from echinococcus crat dermoid crat and old encapsulated tuberculous emprema

In infants with signs of increased intrathoracie tension and meditationl deviation the cist should be opened by the introduction if a valve tube or by marsupialization. In older patients wide opening of the cystic lung with subsequent more or less complete removal of the lobe and suture of the com municating bronchus is indicated Umnfected cysts without pressure symptoms may be left untrested JACOB M MORE MD

Thorpe E S Chronic Bronchiectasts in Child bood Pennsylvania M J 1918 xxvn 168 Moore W F Bronchoscopic Treatment of Bron chiectasis in Chudren Pennsyliania M J 1928 EXXII 1,0

THORPE states that in cases of bronchieclasis in children under thirteen years of age he found the most common precursor to be bronchopneumonia Other conditions of importance in the etiology were pertussis measles and disease of the accessory masal sinuses. In about 65 per cent of the cases there was residual epsis in the tonsils sinuses or middle ear Rickets was an important factor in nearly all of the cases as it reduced the general resistance. In half of the bronchoscopically removed material the predominant organism was the streptococcus

During the earlier stages bronchoscopy revealed slight annular dilatation of the bronch; loss of the gland structure and residual secretion after cough ing Roentgenograms showed slight interstitial and hronchial prominence obliteration of the cardio repartic angle and evidences of chronic pleurisy and disphragmatic dystunction. The principal symptom was a parox) smal cough brought on hy a change of position Hamoptysis was frequent. The physical iigns were those of pulmonary fibrosis with bron chitis In nearly 50 per cent of the cases there was clubbing of the fingers

The most common complications were broncho pneumonia and pleurisy Renal disease occurred in 30 per cent of the cases Anemia was found in one half of the cases and undernutrition was common

MOORE believes that bronchiectasis in children almost invariably follows an acute infection and that disea e of the nasal accessory sinuses and lars n gotrachestis are of little importance in the etiology

One hour before a bronchoscopic examination is made in Moore's cases the patient is given from 1 in to 1/2 gr of morphine sulphate Secretions are sent to the laboratory at once for the preparation of a vaccine Lipiodol is injected through the broncho scope under fluorescopie control in quantities of from 5 to 20 c cm The vaccine is given every fourth day and bronchoscopic treatment every seven days Twerty per cent gomenol or 1 per cent monochlor phenol may be instilled in amounts of 5 c cm (on strictions should be dilated and new growths re moved.

Early cases respond best to bronchoscopic treat ment and those with a small localized area have the best prognosis Bronchoscopy furnishes the drain age which is necessary in this condition

WILLIAM A BRAWS M D

Whittemore W. The Treatment of Chronic Bron chopulmonary Suppurative Lesions I imited to One Lobe of the I ung \r Englant J W d 1928 CXCIT 1213

The author reviews his experience at the Mas sachusetts Ceneral Hospital in the treatment of chionic suppurative bronchopulmonary infection with dilatation of the bronchi limited to one lobe

and not due to the tubercle hacillus The only cura tive procedure in this condition is surgical removal of the involved lobe Bronchoscopy is of value chiefly for the aspiration of pus from the bronchial tree the dilatation of strictures and the removal of granulation tissue that is tending to obstruct the bronchus. The author believes that the injection of lipiodol is unnecessary for the diagnosis in most cases and is dangerous as it may carry the infection to the sound lung Artificial pneumothorax is seldom beneficial

Graham's cautery lobectomy has yielded good re sults especially in involvement of the lower lobe with atelectasis. Amoutation of a lobe of the lung within the pleural cavity has been abandoned be

cause of its very high mortality

The operation advocated by the author is done to shut off the blood supply to the lobe fix the mediastinum and retard the infection of the pleural cavity which always follows a lobectomy for a sentic It is performed under pitrous oxide ovegen and ethylene anasthesia. The pleural cavity is opened the lung is examined and sections of a sufficient number of ribs are removed to permit delivery of the disea ed part of the lobe from the pleural cavity. The lung is then firmly sutured to the muscles of the chest wall and a No 20 French catheter is inserted to the root of the lung. The wound is closed as tightly as possible. The pleural cavity is drained by the catheter. The lobe becomes necrotic in about ten days and sloughs off in from three to five weeks

In nine cases operated upon in this way there were aix complete cures and two deaths WILLIAM A BRANS M D

HEART AND PERICARDIUM

Stevenson G II and Marshall A J Runture of the Heart from a Pyemte Abscess In the Myocardaum Glasgow II J 1028 Ct 31

The case reported was that of a boy nine years of age who was struck on the left ankle by a stone Three days later septic blisters appeared at the site of the murry and a few days after the formation of the blisters the picture of osteomyelitis with sen ticumia developed

't operation free incisions were made over the fibula but the penosteum and bone did not appear to be involved. After the operation multiple ab scesses developed and the pulse remained 120 although the general condition seemed to improve Death occurred sud lenly

At autopsy the pericurdium was found distended by pus and blood from a ruptured abscess of the wall of the left ventricle which had traversed the entire thickness of the ventricular musculature other abscesses were present in the same region but

did not entirely penetrate the wall. Cultures of the Only nineteen similar cases have been reported in the literature

WILLIAM & BRAMS M D

pus vielded staphylococcus aureus

Alexander gives a historical account of the efforts made to treat suppurative pencarditis surgi cally The first successful peneardiotomy was per formed in 1810 by Romero of Barcelona for nonsuppurative pericardial effusion. Two of the a patients upon whom he performed this operation recovered In 1844 Hilsman performed the first successful pericardiotomy for suppurative pen carditis Since then there have been reported a total of 176 pencardiotomies for suppurative pericarditis with 76 recoveries and ex deaths

Suppurative pericarditis is usually a secondary disease Most commonly it follows pneumonia and rheumatic fever but may be associated with or follow other conditions such as tuberculosis osteo myelitis puerperal sepsis gonorrhœa scarlet fever, typhoid fever meningitis malaria erysinelas and leukamia. It may be a terminal complication in gout chronic pephritis arteriosclerosis scurvy pleurisy aneum in diabetes and various other chronic illnesses including certain types of benatic

carrhosas

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IXXXVIII SOI

Primary pericarditis is usually due to external trauma but cases have been reported in which it was caused by an injury from within such as per foration of the esophagus or the stomach through the diaphragm

The types of microorganisms found include pneumococci Roch s bacillus bacillus procvaneus bacillus welchs and other progenic cocci and bacills. The condition is most frequent between the sixth and twenty fifth years of age. Pneumonia is

responsible for most cases of nurulent penearchies at any age The physical signs of pencardial effusion depend upon a disturbance of anatomical and physiological relations resulting from the accumulation of fluid in the sac, Muffled heart sounds are characteristic An accumulation of 750 c cm of fluid may cause the disappearance of all traces of friction rub even at the base and the apex where frictions usually persist longest. An increase in the extent and a change in the shape of the area of precordial duliness noted on percussion are among the most trustworthy diagnostic signs. In children precordial bulging is According to Williamson downward displacement of the left lobe of the liver is one of the earliest signs. An accumulation of from 500 to 600 c.cm causes a displacement of 2 5 cm is not of much aid in the diagnosis as the patient is too ill to permit a satisfactory roentgen examination The symptoms are due to the mechanical enlarge ment of the pencardial sac in the thoracic cavity the presence of pus associated with toxersia and reflexes due to mintation of the phrenic perve and the ganglia and nerves of the intercestal plexus

The diagnosis is made certain by the finding of pus on exploratory puncture or incision but a probable diagnosis can be reached from a careful consideration of the etiology the course of the lever the cardiac muscle symptoms the general condition precordial cedema a high leucocyte count and

ray evidence of fluid in the pencardial sac-The treatment is drainage of the pus by wide

exposure of the pericardial sac. The incision should be made to the left of the sternum as low down as possible because the lowermost part of the pen cardium hes toward the left and because the sac is more likely to be uncovered by the overlapping pleura on this side Many operations have been devised in accordance with these principles. Resections of the fifth sixth and seventh cutil cartilages either alone or in pairs and in some instances with resection of portions of the sternum have been suggested. Alexander found excessor of the fifth and sixth costal cartilages to be sufficient in his cases

Local anasthesia should be employed and specul attention paid to the anasthesia of the penumbum before the pericardial incision is made. Rubber tissue drains inserted after exploration of the sac with the finger have been found satisfactory Some surgeons advise strigation with Dakin a solution or normal saline solution but Alexander has not found

this necessary

The author reports 4 cases The first case il lustrates the difficulties in diagnosis Operation revealed enormous dilatation of the heart but no fluid in the pencardial sac This was a case of then matic fever The patient recovered in spite of the operation but cardiae decompensation persisted

In the second case the suppurative pencardina followed a lobar pneumonia Complete recovery

resulted In the third case also the condition followed! bar pneumonia The patient survived two months after

the operation and during that time there was inter mattent dramage of pus through a catheter introduced into the pericardial sac

The fourth case was that of a girl of six years who became all with symptoms of septicamia Opera tion was performed ten days later after \ ray examination had revealed evidence of pencardial effusion Fifty cubic centimeters of a turbid fluid showing pus cells were removed Recovery was MANUEL E LICHTEUSTEIN MD complete

CESOPHAGUS AND MEDIASTINUM

Beatty G C Congenital Stenosis of the Esoph agus Brit J Clid Dir 1918 xxv 237

The author reviews in detail fifty cases of congenital stenosis of the resophagus which were recorded in the literature up to 1926 and reports four more

There are two varieties of this rare aromaly (1) a membranous type with partial occlusion of the lumen by a fold of normal mucous membrane and (2) a non membranous type with a localized reduc tion of the size of the ersophagus. The stenosis may be situated anywhere in the resonhagus but its most common sites are the upper and lower ends

In congenital stenosis there are no pathological changes in the walls of the ecsophagus such as are found in acquired stenosis but there may be hyper trophy and dilatation above the obstruction As a rule congenital stenosis is not accompanied by other coogenital abnormalities

The symptoms of concenital stenosis usually begin in infancy most commonly at the time of wearing The most characteristic symptom is regurgitation of unchanged food within a few minutes after its

deglutrion without pain or nausea

Adults with congenital stenosis of the esophagus may be well developed and well nourished but in children and adolescents some degree of infantilism is not uncommon

Roentgenography and ersophagoscopy are an valuable in the diagnosis

When treatment is given the prognosis in the membranous type is good complete recovery being usually possible. In the non membranous variety

the prognosis is not unfavorable as regards life but restriction of solid food is generally necessary

The best treatment in the membranous variety is gradual dilatation with bougies controlled by exophagoscopy until the membrane has been destroyed

In the non membranous form dilatation is un likely to be successful and is attended by con st lerable risk of rupturing the resophagus A few successful results following radical operations have been reported In a case of stenosis at the lower end of the asophagus it may be necessary to consider excision MANUEL E LICHTENSTEIN M D

MISCELLANEOUS

Guion C M and Meara F S Chest Pains Wed Cin \ 1m 1928 xii 623

The authors discuss the causes and treatment of angina pectoria. Attempts have been made to block the pathways of pain by surgical measures Cases

have been reported in which the pain ceased after anæsthetization of the second and third dorsal nerves on the affected side However the relief was only temporary In 1920 Jonnesco reported a case in which he obtained a cure by resecting the left cervical sympathetic Coffes and Brown completely relieved the pain by cutting the superior cardiac nerve and the main trunk of the sympathetic helow the superior cervical ganglion

As the pain is a danger signal warning of exhaus tion of the heart these measures should be used only after all other efforts to give relief have failed

Reflex anging begins below the diaphragm nos sibly in the gall bladder Cardiospasm and pyloro spasm can cause intense pain beginning in the epigastrium and radiating up the sternum and out into the jaws HOWARD A MCKNIGHT M D

McPhedran F M and Weyl C N The Value of Synchronization in the Accurate Diagnosis of Chest Diseases Radiology 1928 x1 458

As applied to roentgenography of the chest 5) nehronization means making exposures at a selected phase of the cardiac cycle Pairs of films thus exposed in the same phase are truly stereoscopic Cardiac movements the pulse wave within the pulmonary arterial tree and the vibration of the

pulse set up in the peripheral lung are responsible for many hilum shadows which are variously interpreted

The authors have devised a method whereby with the time of exposure cut to one fortieth of a second and accurately timed as to the cardiac phase clear plates may be obtained free from the blurry margins so commonly seen

This method offers an improvement in the chest technique which may change the interpretation of lung markings. It constitutes also a delicate test for cardiac failure comparable with early ophthalmosco pic examination for changes in the circulation

GEORGE A COLLETT M D

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Rosenblatt M S and Meyers M Muscle Fascia Suture with Preserved Fascia and Tendon Surg Gynec & Obst. 1928 Alva 836

In experiments on dogs Rosenblatt and Meyers carefully removed the loose arcolar issue from the rectus muscles and then sutured them to Poupart's ligament writer strong tension to determine what ligament writer strong tension to determine what may be expected in the way of timon under tension Preserved ox Isacia and tendon and autogenous fas cas were used as suture maternal

Both the dead lasers and the autogenous fascia gave very firm union. The tendinous material gave less firm union and was more difficult to use as it was inclusive hard and apt to be more bulk.) The union obtained with the autogenous lasers was no firmer than that obtained with the dead fascia.

At necropy the fascia suture appeared smaller than when it was introduced and there were dense fibrous growths between the suture and the muscle and Poupart a ligament. When tendon was used no reduction in the size of the suture was noted and the fibrous ingrowths nere lewer. The microscope showed that the fascia and tendon

grafts had caused a foreign hody reaction but very little round cell reaction. Connective tissue cells had invaded the grafts and bound them to the rouncles and fasted. Marked vascular_ation of the grafts had taken place.

The authors conclude that the dead fascia graft is of value in difficult hermiotomics

LOUIS P GAMBEE M D

Wehlk M. Inflammatory Diseases and Incinatomata of the Anterior Abdominal Wall (User entagendliche Erkrankungen und Haematome der vorderen Bauchwand). Itis chirurg. Scond. 1978 km. 352.

In the period from 1921 to 1927 inclusive twenty cases of disease of the anterior abdominal muscles were observed in the surgical hospital clinic at Dorpat. Three were of traumatic and seventeen of metastatic origin. The causes were

1. Traumatic rupture of the anterior abdominal

muscles without suppuration
2 Spontaneous rupture of the muscles as a result

of degeneration or atrophy
3 Sportaneous rupture of the epigastrie vessels

due to acute or chroni injuries of their wall.

A Primary foci of infection and piogenous mused infections forming metastases. To this group belong also the so called idopathic cases which are metastases from a latent focus of infection.

By causing irritation of the parietal peritoneum and consequent inflammatory peritonitis ruptures

and inflammatory conditions of the abdor as imuscles of acute onset into simulate acute mate and abdominal disease. In cases of abscases and is matomata in the nerties sheath it is important to determine whether the lesson is located to the right of the left of the mailine and to note the starp himitation of the systems whether the second of the systems are the left of the mailine and to note the starp himitation of the swelling at the tendinous inertion.

of the mus le. The tumor can be moved deway through the relaxed shdommal muscles but rems os immobile when the muscles are rigid. In the twenty cases reviewed the rectus muscle was tnyolved most frequently. In lour cases purmy

for of infection besides influenza and perimenal was the found and in one case a purperal infection was present. In three c. es the condition was traumatic origin and in seven its ongai could not be determined

Bailey II Strangulated Femoral Hernia Fri 31 J 1918 11 1933

The author compares the old lower operation with the Loth usen operation for knows hernis. The disadvantages of the lower operation are summarried as follows.

r Resection and anastomosis are impossible within the firmits of the wound 2 A loop of bowel may be reduced extrapentons

2 A loop of bowel may be reduced extrapentone

3 The bladder is in dang r of injury
4 The loop of bonel may retract within the above

men before it can be inspecte?

The technique of the Lothesten operation is described Partualial attention; such to plains the deep authors through Cooper's ligament and be personteum. It is important to keep the life higher on contact with the femoral van to protect this vessel. The utures are carried through the conjound tendo, and when ted bures the attention that the thopperburships.

In sevent) cases treated by the lower method there were five recurrences and four deaths whereas in thirty cases treated by the Lothes on method there were two recurrences and one death

The operation of Hey Croves in which Porparis ligament is split has certain advantages over the lower method. The author performed this operator in seven cases with two deaths. Of the lour patoria, who have been traced none has developed a returner.

Scheer W. The Determination of the Vitality of Leucocytes in Personnal Endate (Let Profise der Vitalitaet von Leukocyten in Lentonesiena h.) Destude 21 thr. | Un. | 928 cct. 250

The author determined the vital staining capacity of the pus cells in the peritoneal exidate in about

fifty cases of appendicutes. Undamaged cells did not late collorial dyes such as Congo red or trypan bise but damaged cells absorbed these dyes. There append to be a relation between the staining capacity of the Jeucocy tes the anatomical changes in the abdomen and the duration and vursiones of the affection. It was possible to judge the processes me the abdomen from the number of damaged cells. The number of damaged cells was greater in cases of mits abdominal abscess than in those of fresh per foration. This finding was in agreement with the more dangerous climical porture and higher mortality.

in cases of intra abdominal abscess The conflict of the organism against the infection was shown by the staining reaction when the living uncolored cells were compared with the damaged stained cells Such a comparison permitted certain conclusions to be drawn with regard to the progno sis A single examination during the operation gave information as to the defensive powers of the body In acute phlegmonous appendicitis the number of stained leucocytes never exceeded to per cent. In gangrene and perforation the number of damaged leucocytes ranged from ro to 50 per cent. In per forated appendicates with general peritonitis there were hardly any unstained cells In old appendiceal abscesses all of the cells were stained whereas in early cases from 30 to 60 per cent showed staining KONNIG(Z)

Dudley G S Endothelioms of the Peritoneum

Ann Surg 1928 INTXVIII 1110

The patient whose case is reported was a woman who had an attack of pleurisy in 1918 when she was seventeen years old and in 1921 was believed to have tuberculous peritonitis. In 1022 she was operated upon under local anæsthesia for right inguinal her nia In July 1922 she was subjected to a laparot omy for a condition believed to be tuberculous peritonitis but the pathological diagnosis was pseu domy xoma of the perstoneum In October 1022 2 second Isparotomy was performed for the evacua t on of fluid from the abdomen and a pathological diagnosis of subacute productive peritoritis was made In October 1923 February 1924 and Octo ber 1924 \ ray treatment to the abdomen was given Menstruation stopped after the beginning of this treatment

this teatment In January 1025 the abdomen was opened for the bard time because of pain and re accumulation of Goal and a pathological diagnoss of adenocar food and a pathological diagnoss of adenocar to the personnel of the per

alleviate the symptoms of the artificial menopause resulting from the irradiation CARL R STEINEE, M.D.

GASTRO INTESTINAL TRACT

M Cracken I E Consecutive Tests by the Fractional Method of Gastric Analysis Edinburgh M J 1028 xxxy 674

The author reviews seventy five cases in which a gastric analysis by the fractional method was done on two or more occasions Each test was preceded hy a thirty six hour period of preparation during which all drugs were stopped and a simple light diet was given Seven hours before the test which was always made at about 7 o clock in the morning the patient was given a cup of milk containing two tea spoonfuls of charcoal and a charcoal biscuit Ryles tube was used. The test meal consisted of strained gruel made in the same way for all cases. In most cases a stilet was used in passing the tube After the tube had been passed the stomach was numped dry the test meal was given and samples were withdrawn every fifteen minutes for two hours The stomach was then again numbed empty samples were immediately examined for mucus bile blood and charcoal Iodine was used to test for starch Toepfer's reagent and phenolphthalein were employed as indicators in checking the acidity and in cases in which there was a question as to the amount of free hydrochlorie acid the Guenzberg test was carried out

Sixty two per cent of the patients were able to snallow the tube nithout difficulty the first time they were tested and an additional re per cent were able to swallow it without difficulty the second time they were tested. When the acid curves were classiped it was found that 47 per cent of the patients had a different curve when they were tested the second time. The difference averaged 11 6 units in the determinations of free hydrochloric acid and o 7 units in those of total acidity. The average difference be tween the first and the second curves was less when the comparison was made at the end of the first hour and a half after the ingestion of the test meal. Most of the patients showed a higher response to the first test than to the second All but one showed a higher response to the first test at the end of fifteen min utes but an hour after the ingestion of the meal the average response was greater in the second test. The percentage of cases in which a higher response was obtained in the first test seemed to increase with the ease with which the patients were able to swallow the tube. When difficulty was experienced in the swallowing of the tube it was found that the first test gave a lower curve than the second at which the difficulty was less. The rate of emptying estimated by the absence of starch was found to be constant in the two tests in about 65 per cent of the cases In the other 35 per cent there was a variation which in the author's opinion might have been found of sig nificance if it had been studied further Considerable variation was noted in the presence and the amount of bile mucus blood charcoal resting juice in the stomach and the residue at the end of the test. The author believes that this was probably of some sigmácance

M Cracken concludes that the variations in the results of consecutive tests by the fractional method of gastric analysis are greater than is usually supposed and that the test is not a reliable method of recording changes in gastric function resulting from treatment or other causes. Honever he believes that the average amount of variation is not enough to affect seriously the diagnostic significance of the results obtained from the test

LOUIS P GAMBEE M D

Naumann H Fatal Hæmorrhage fcom a Gastric Ulcer Which Could Scarcely Be Seen at Au topsy (Verblutungstod aus einem selbst bei der Autopsie kaum nachweisbaren Ulcus ventriculi) Ved Alin 1928 221v 935

After a few prodromal symptoms a taenty two year old girl had a gastric hamorrhage with subse quent intestinal bleeding. Another copious hæmor

rhage eleven days later was fatal At autopsy it was impossible to discover the slightest evidence of ulcer on the external surface of the stomach but the gastric mucosa on the posterior wall showed a very shallow ulcer about the size of a lentil The fatal humorrhage was probably due to a

very small blood vessel in the center of the ulcer

Mandler \ Gastric Ulcer and the Bayliss Starting Law (Magenge chwu r und Bayles Starlingsches Grundgezetz) Acta chirurg Scand 1928 Inv 346

The author is of the opinion that the pathogenesis of the functional symptoms of ulcer of the lesser curvature may be explained by the Bayless Starling law. He discusses the most important symptoms from this standpoint

White F W and Jankelson I R Late In tussusception of the Bowel into the Stomach After Gastro Enterostomy You England J Med., 1928 ever 1189

The authors review the literature on late in tussusception of the bowel into the stomach after gastro-enterostomy and report two cases

The first case was that of a man thirty-eight years of age who was operated upon for a penetrating ofcer of the duodenum. The ulcer was inverted and a gastro-enterostomy was performed Eighteen months later the patient was suddenly seized with epigastric pain and hamatemesis resulting in moderate shock Operation was not considered urgent but death occurred after a few hours

At autopsy the stomach was found greatly di lated and filled with blood stained fluid and coils of small intestine A 40-cm portion of bowel had become invaginated through the gastro-enterestomy opening and was congested and somewhat gangre

nous This loop of bowel had been the source of the hicedrag The second case was that of a man thirty-seven

years of age upon whom a posterior gastro-enter ostomy was performed for pylone ulcer with obstruc tion Four years later vomiting of coffee-ground vomitus occurred for four days the boxels failed to move and penstalsis became visible above the umbilious Operation revealed a loop of small intestime invaginated into the stomach through the gastroenterostomy opening Death resulted

The authors review sixteen similar cases reported in the literature. Hamatemesis was a frequent and important symptom A tumor mass was found in less than 50 per cent and the mortality siter opera tion was so per cent MILETAN A BRAIN MD

Wolfsohn G Gastric Carcinoma After Gastro-Enterostomy for Ulcer (Veber Magencarineme nach Gastro nterostomie wegen Ulcus) Dwicke med Il chatche 1928 1 v 1070

On the basis of 150 of his own cases and 15 hospital cases of gastric ulcer which were treated by gas "enterostomy the replies to a questionnaire sent to Berlin surgeons and gastro-enterologists and toe statistics in the literature the author has come to the conclusion that cancer of the stomath is very rare after gastro-enterostomy unless it was present before the operation and that when symptoms retur several years after the operation they are probably

not due to the development of a gastric cannot He believes that the mucosa of the small intestine contains anti-carcinoma sub-tances since car cinoma of the small intestine is very rare as com pared with carcinoma of other parts of the intestinal tract and other tumors of the small intestine alceof the duodenum very seldom undergoes mai grant degeneration as compared with ulcer of the stoma.h and gastric ulcers for which gaut o enterestomy is done practically never become carcinomatous where as of those not treated surgically from to to to pet FOREPH (Z) cent become makenant

Problems in Gastric Surgery

Moynthan Sir B Proble Brit M J 1928 n 1021 This arts le is based on the author's experience of thirty years Mountain deplotes the use of the term gastroduodenal ulcer in a recent acucle by MacLean Jones and Fildes as he believes that no advance in our knowledge of these two conditions can occur if they are spoken of as one disease. He calls attention to the fact that gastric and duodenal ulcers differ in symptoms in their behavio as regards ba-morrhage and perforation in their tend ency to undergo malignant degeneration and in the chemical nature of the contents of the stomach Moreover the two lesions occur as a rule in opposite types of persons. He believes the use of the term juxtapylone ulcer is also to be condemned la his series of over 2 000 cases of gastine ulcer lea than 3 per cent of the lesions were at the piloris of within 135 in of it

Acute gastric and duodenal ulcers are usually multiple and heal quickly leaving little or no trace They very rarely perforate and seldom bleed This was demonstrated by observations of gastric ulcers over a twelve year period. In 60 of 61 cases in which death occurred from perforation and in 13 of 14 cases in which death resulted from hæmorrhage the ulcer was chronic. The same relationship was noted in a similar series of cases of duodenal ulcer

With regard to the relative value of medical and surgical treatment. Moynihan states that both gas tric and duodenal ulcers may heal under medical treatment and remain healed but since sound heal ing may result in pylone stenosis which is virtually duodenal stenosis and in hour glass contraction of the stomach surgical treatment may be necessary eventually in cases at first treated medically autopsy evidence of open or healed ulcers is found in 5 per cent of bodies examined and in many of the cases there has been no history of symptoms

Before medical treatment is begun the presence of an ulcer must be established definitely. At times the ray findings are misleading MacLean has reported the complete healing of a very large pene trating gastric ulcer in three weeks under medical treatment but the author has never known of such sn ulcer to heal in less than four months In the author's cases the ulcer was seen at operation and was found too high for resection an operation such as cholecystogastrostomy was done and the healing

Moynihan emphasizes that the surgeon may do irreparable injury by performing a short circuiting operation in cases in which no trace of ulcer is found whereas drugs and dietary treatment do no harm if an ulcer is not present. In cases without ulcer medical treatment has earned an undeservedly high repute and surgical measures have been brought

into unwarranted disrepute

Medical treatment is apt to be dangerous pro-longed and tedious. To banish symptoms is easy but cessation of the symptoms seldom means that the ulcer is cured. The object of treatment must always he firm healing of the ulcer MacLean is quoted as stating that if symptoms recur treatment with milk and alkaline powders for a day or two is indicated but Moynihan emphasizes that recurrence of symptoms means renewed activity of the ulcer infection and spasm MacLean uses the word

cure in reporting a number of cases in which treatment was begun in 1926 or 1927 but in Moyni han a opinion a cure under medical treatment in the short period since that time cannot be assumed especially when seasonal variations and the cyclical character of the symptoms are taken into considera

With regard to the intensive administration of alkalies Moynihan points out that this treatment is theoretically unsound since in many cases of ulcer the gastric contents show a low acrdity or none at However until something better is found alkalies are indicated when hyperchlorhydria is

present It has been suggested by Kinsella that the potent effect of alkalies is due not so much to their neutralizing power as to their ability to dilate the pylorus with subsequent relief of the spasm and emptying of the stomach

If medical treatment is to succeed the patient must closely follow the advice of his physician Per functory and haphazard procedures which leave too much to the patient are often the cause of dis appointment in the results and of the rences or true disasters with which the surgeon has so frequently to deal Medical treatment must include a few weeks of rest and the administration of triple or quadruple carbonates when the acid content is high Advice with regard to diet the use of alcohol and drugs and rest warmth and cloth ing must be scrupulously followed by the patient Movniban takes exception to Hurst's statement that calloused and penetrating ulcers may heal in three months as he has found that bealing may require as long as three years

The patient who has experienced many recur rences or in whom one or more chronic ulcers have existed or are still present is only wasting time and risking his life by continuing medical treatment. It is rare indeed to hear of a patient who has unfalter ingly submitted to the full prolonged medical treat ment Moreover patients in poor financial eircum stances are seldom able to give medical treatment an adequate trial Therefore the treatment of gastrie and duodenal ulcers is an economic rather than a medical problem Deaths in cases treated medically must be attributed to the failure of that treatment

If gastro-enterostomy ones its success to the alkalinizing power of the hile that enters the stom ach it would seem rational to expect that cholecy sto gastrostomy would accomplish the same results In cases of maccessible large ulcer in the stomach with a normal or high acidity, and in eases of jejunal ulcer the latter operation has been done but it is still too soon to judge the end results

A certain percentage of gastric and duodenal ulcers can be influenced only hy surgery the propor tion depending upon the ages and general condition of the patients the duration of the ulcers the care exercised in intensive medical treatment and its duration the subsequent attention paid to diet and other matters the occurrence or non-occurrence of hæmorrhage stenosis and chronic perforation with adhesions to neighboring parts and in the case of the stomach the tendency toward malignancy

Seldom if ever does a patient with duodenal ulcer and a history of two or more attacks recover per manently under medical treatment. The symptoms may subside for months or even years but ultimately they recur As a rule it is the incompletely calloused ulcer that breaks down Hundreds of such cases have been seen

The main indications for surgical treatment in duodenal ulcer are recurrence of the symptoms stenosis and bleeding

Attention is called to the modern tendency of surgeons everywhere to abandon short-circuiting operations The author's long experience leads him to believe that such operative procedures are the most successful of all abdominal operations. The grave discrepancies in opinion are explained by the fact that gastro-enterostoms should never be per formed alone but should be accompanied by some measure that deals directly with the ulcer Unless this advice is followed the symptoms may recur and perforation or bl eling may necessitate re operation In addition the appendix should be removed an I the gall bladder and spleen dealt with as indicated In cases with an ulcer on the posterior surface and with or without an antenor ulcer the duodenum may be opened the ulcer cauterized and the pylorus closed temporarily with an encircling suture. In over 80 per cent of cases with both an anterior and a posterior ulcer the anterior ulcer is the older Lake s dissatisfaction with gastro enteros tomy is attributed by Moynihan to inadequacy of his attack. Careful pre operative preparation is es sential Since the ara tomosis does not beal by first intention bismuth carbonate should be given and a special diet prescribed. There will be no dissatisfac tion with gastro-enterostomy if care is taken to observe these rules. The mortality averages 1 per cent although Pannett in a recent article tenoried it to be 4 or 5 per cent in selected cases and higher in unselected cases Preliminary preparation of the natient including blood transfusion does not mean

that the case belongs in the selected group.
It is difficult to explain the wide differences of
opinion as to the ultimate results of gastro-enter
ostomy. Componily an unsatisfactor, result means
that the operation was not properly performed.
Lake gives the tundence of unsatisfactor, presults as
36 per cent but in the author's expendence it is
between 6 and 8 per cent. The operation is not online
done for such conditions as lead possoning viscerrotions; choighthains; takes domails and achlor

hydria When definitely indicated and properly performed gastro-enterostomy should cause no anxiety except in the case of hamorrhage and jejunal ulcer The former occurs as a rule from an ulcer at or near the Failure entirely to eradicate dental anastomosis infection may be responsible for bleeding Spleme anemia and acute ulcer may also initiate hamor thage Mounthan takes exception to a statement by Parnett that gastric ulcers and especially duodenal ulcers are as liable to blend after operation as before He states that if this is the case it must be assumed that gastro-enterostomy was done in cases of gastric uleer for which it was unsuitable or that a deoderal u cer was left untouched

The ultimate results of gastro-enterostoms are spotted by the complication of jejunal ulter in from 4 to 5 per cent of cases. The ulter may develop while the patient is still in the hospital or as late as mineteen jears later. As a rule it appears within two

Lewisohn reports that jejunal ulcer developed in 34 per cent of cases in which he performed a gait oenterostomy for duodenal ulcer while Burges re ports that he has rarely observed the lesun Fol lowing the lead of Haberer miny surgeons now advocate partial gastrectomy for duodenal picer Before this procedure is considered gastro-enteres tomy should be given a fair trial based on strict adherence to an invariable routine including careful examination pre-operative preparation conners tion of the clinical diagnosis at operation destroit tion of the ulcer by cauternation or otherwise repair of the duodenum followed by a short-circuit ing operation removal of the appendix examination of the biliary tract regulation of the diet and restriction of the use of tobacco alcohol, and salt li these precautions were fully observed little would be heard of deaths or poor results alter gastro-

enterastomy There is no doubt that gastrectomy for duodensi older is a more serious operation than guitroenterostomy Its mortality ranges from 5 to 10 per cent and in cases operated upon by surgeons of little skill is much higher The upansnerable deduc tion is therefore that if every patient with an unsatisfactory result after gastro enteror only nere to un from the operation the survivors with a good result would be equal in number to the survivors af er gastrectomy that is to say equal in n wher to those who in the author's practice de after guitoenterostomy plus all those whose res its ulumateh prove unfavorable The advocates of gastrectomy claim that because of the anacidity re il ing from the operation secondary ulcers are unlikely to de velop This statement has been dispro ed repeatedly Even when three fourths of the tomach has been removed free hydrochlone and may be found The interature reports at least roo cases of jejan ! ulcer following gastrectomy for duoderal ulcer On the other hand pounal ulcer rarely follows gastrectomy performed for gastne ulcer

In 166 cases of duodenal ulcer operated upon by Haberer in the period from 1925 to 1927 the mor tality was 84 per cent. Of the 107 patients traced

2 developed a gastrojejunal ulcer The advocates of gastrectomy are asked b Moyaman upon what grounds the operation ? As the mortality as between 5 and e-tablished so per cent the operation seems prohibited for it means that a larger number of patients are caused to die in order that a larg r number may her to experience a possibly slighter chance of developers a new ulcer The chemical results do not show to advantage when compared with those follow & gastro enterostomy and there is not a great degree of freed m from the only serious sequela gastrojejunal nicer In surgery the search should always Gastrectomy for be for safety and simplicity duodenal ulcer is neither safe nor simple and does not give better end results than gastro-enteres ont The worst of gastro-enterostomy is known and the best is unsurpassable. We have yet to learn the worst of gastrectomy and what we know is unfavor

able enough

A Continental surgeon has spoken of gastro enterostomy as a disease It is true that it is a disqueting and formidable disease-serious wide spread and highly contagious-but its victims are to he lound among surgeons rather than among patients. It is the irrelevant application of the operation to unsuitable cases and its imperfect per formance in cases requiring it that have brought it into disrepute

It is true that we are hearing of more and more gastro-enterostomies that require separation. The author has separated many of them but in none of the cases has he seen any unequivocal sign of an old or recent gastric or duodenal ulcer. If the operation had been necessary the anastomosis would not have required separation except of course in cases of jejunal ulcer The necessity to undo an anastomosis is a reflection not upon an accredited operation but upon the judgment of the physician who advised it or the surgeon who performed it in that particular case Too often the operation is done solely upon the advice or request of the referring physician

MORRIS A SLOCKE VI D Flint E R Complete Gastrectomy for Carcinoma

of the Stomach Brit M J 1928 11 979 The patient whose case is reported was a laborer forty four years of age whose chief complaints were indigestion with pain anorexia and loss of weight The indigestion had been present for two and a half years Lpigastrie pain occurred about half an hour after the ingestion of food. At first the attacks lasted three or four weeks and were followed by almost complete freedom from symptoms There had never been any vomiting of food or blood and no blood had ever been noted in the stools The

patient suffered from constipation Physical examination showed the patient to be anguage and revealed an ill defined lump in the epi

A diagnosis of carcinoma of the stomath was

ma in At operation the stomach was lound to be the site of a large growth. There were thin adhesions to the panereas Several glands along the lesser curva ture and one gland at the ersophageal juncture were in shed A pylorectomy was performed and the duodenal stump inverted The gastrocolic omentum was divided along the greater curvature and the lesser gastrohepatic omentum similarly treated The stomach was then mobilized and drawn down by traction on the ersophagus cut off and sutured to the jejunum The jejunum was drawn up in front of the transverse colon

The patient bore the operation well Wathin a month he was out of bed and able to take small quantities of oft food at frequent intervals After a meal he very soon became hungry again Diarrbora was present for several months alter the operation but finally ceased entirely Microscopic sections

showed the tumor to be a spheroidal celled type of growth

Seventeen months after the operation the patient was back at work able to eat normally and in an parently good health except for slight anomia Lighteen months after the operation the erythrocyte count averaged 4 500 000 the hæmoglobin value was 76 per cent and there was only a slight varia tion in the size shape and staining qualities of the

Sherry L B Two Cases of Benign Intestinal Ob struction Sure Clin N Am 1028 vm 1511

The first case reported was that of a man twenty six years of age who suffered an acute attack of abdominal pain When the patient was seen by Sherry the abdomen was tense but not distended the temperature 101 degrees F and the leucocyte count 14 000 A diagnosis of perforated appendi citis with peritonitis was made

Operation through a right rectus incision revealed a Meckel diverticulum which had tied itself into a single knot around a loop of the ileum in such a way that the distal free end had become gangrenous When the adherent band was freed the howel as sumed its normal color. The abdomen was closed without drainage Recovery was uneventful

The second case was that of a man sixty years of age with a history of pain in the lower part of the abdomen nausea and vomiting of four days duration Examination of the upper abdomen rescaled a sisible tumor mass in the midline above the umbilicus The mass was the size of an orange and freely movable from side to side It was not painful A diagnosis of prohable malignancy of the transverse colon was made

Operation revealed an intussusception of the ascending colon into the transverse colon. This was readily reduced A retention cyst or mucocele of the appendix measuring 9 by 35 cm was then found and removed. The patient made an uneventlul recovery The specimen was filled with a clear mu coid material and on microscopic examination was found not to be malignant Jon W Nizum M D

Retan G M Non Operative Treatment of In tussusception \ lork State I M 1928 xxviii

In Retan's method of treating intussusception non surgically the child is placed on a horizontal fluoroscopic table and barrum in water is injected into the rectum by gravity under a pressure of 3 or 4 ft The barrum will stop at a level below the in tussusception When this occurs the supply of barium is turned off There is then a column of barrum in the colon and above it a column of gas

Above the gas is the obstruction With the inner side of one hand place I trans versely across the abdomen pressure is applied on the sigmoid to prevent the barrum from escaping and then with the other hand pressure is carefully and intermittently made on the colon to force the barium upward. The advancing barium forces the gas upward distending the colon and exerting an even pressure against the obstruction.

The result of this procedure is watched in the fluoroscope. If the obstruction is not relieved the column of barium is seen returning when the pressure is removed. If the obstruction is relieved the colon is filled with the harmy. Its outline is then carefully studied. If the colon cannot be completely outlined operation is done.

In 400 cases treated by this method by Loch and Oerm the mortality was lower than in cases treated surgically HARRY W FINE M D

Molr P J and Walker G F Sarcoma of the Small Intestine Bru M J 1928 h 11 o

Satcoma usually occurs about midway along the small intestine. The prognosis and symptoms do not vary according to the microscopic picture of the growth but depend upon the gross morbid anatomy. The following three types are recognized.

7 A small polypoid mass projecting into the lumen of the gut This is the most common type. After several months of general symptoms chiefly cachena colic and fever acute intussusception occum.

2 A cuff like of tubular infiltration of the bowel wall. After general symptoms of several weeks or mouths duration an adoptional tumor suggesting an appendiceal abscess of ovarian 1/31 is discovered or subscute obstruction simulating a growth of the colon takes olace.

3 A ped houlsted mass from the peritoneal surface of the gut. General symptoms are followed by acute symptoms due to the increasing bulk of the tumor changes within it or acute torsion of the involved coil of small bone!

Three cases are reported. In the first up which operation was performed for sque intestinal obstruction a large tumor (sarcoma with cosmophie mid faction) was found it is to below the duodenojerual juncture. This was received and a lateral massive most was performed. Elevery sear lateral an aneutar cuff like growth begin up in the small intestine was recovered following the end attended to the search of the particular was well one year lateral massive mid the particular was well one year lateral massive in the second one there was a spindle cell sarcoma.

in the score date that was a spin of the form of a sloughing cyst attached to the small intestine x ft from the duodenojejunal juncture. The patient was alive one year after resection and lateral anastomosis.

The third case was that of a patient who was admitted to the hospital in every poor condition with a diagnosis of actie intestinal tool truction. Operation and it diagnosis of actie intestinal tower but discovery as all that could be done. At all the could be done. At all the could be done at the could

HARRY L SALTISTEIN M D

Green N W Polypoid Adenocarcinoms of the Jejunum with Acute Intussusception des

Surg 1928 Ivravan 1112
Green N W Leiomyoma of the Jejunum with
Intussusception Ann Surg 19 8 ixxviii 1113

A woman thirty four years of age gate a history of abdommal cramps for twent five days and sure, and somiting for two days. For two tests the hist been on a diet because of a nervos strunch at operation as intussisception was found about 4th from the legislant of Treitz A jan portion diet gut with a pediunculated mass was reserted and a said to said a nastromous was done. Good recover residered. The pathological diagnosis was polypoid adenocatemous of the ignume.

A man sixty seven years of age had suffered for six months from attacks of abdominal pain which lasted for several hours. At operation 5 in of the legiungm and a timou about 13 in from the highest of Treitz were resected and a side to side anatonosis was done. Good receiver resulted. The pathological diagnosis was leioniyoms of the jejiungm.

Caldbick S L Two Cases of Persistent Omphalo mesenteric Duct Surg Cl n h Am 192 Val

In one of the author's cases of pensisten angialemeasurers due that of a beloy epitien day all there was a discharge of fread material though the umbitious which noterfered with nutrition to undesestent that surgical inter-cubion was need say in the other case that of a soman hinty two years' age the remainst of omphalomeetiners dust bound the ileum to the umbitious and was the case of abdominal distress but there was no d. charge and the surgical control of the control of the

Ryle J A Chronic Spasmodic Affections of the Colon and the Diseases Which They Simulate Lancet 1028 terr 1113

Byle zeroswa a senet of fifty case of a satic color—tharty mae a thou of excess mixes in the story and eleven of the condition commonly call of "monostic control of the condition commonly call of "monostic control of the condition of the condit

The chief complaint in chrotic systemelic conditions of the coloo is usually disconflort or pain in the lower part of the abdomen. The pain is often dull continuous ache. It varies greatly in its reflected parts of the colon can be painting the affected parts of the colon can be painting the affected parts of the colon can be painting to the colon can be considered Examination of the study events on block on sigmedoscopic examination the miceas appears from the colon can be compared to the colon can be considered to the colon can be considered to the colon can be considered to the colon can be colonially as the colonial can be colorially as the colonial can be colonially as the

in extreme cases the affected length of bowel as a thin thread or streak of barium There may be also a shortening or straightening of the affected segment The condition must be differentiated from appen dicitis duodenal ulcer diverticulitis carcinoma of the colon renal colic intestinal obstruction ovarian and tubal disease, and neurasthenia

The treatment must include a simple explanation of the nature of the disorder to the patient General hygienic measures are important Mental and physical relaxation moderate exercise warmth and a sensible mixed diet are necessary The bulky starchy foods which cause flatulence must be avoided Most fruits are desirable Purgatives should be forbidden. The use of tobacco should be restricted Relladonna helps to relax the spasm Bromides should be reserved for nervous patients When the pain is severe large warm enemata ad ministered slowly and rectal injections of 4 or 5 oz of warm liquid paraffin to be retained overnight are beneficial. As the disorder is so largely dependent

toms and in mild cases may effect a cure ION W NUZUM W PRO

but rational treatment will often relieve the symp Thoriakson P II T Ulcerative Colitis Canadian M ist J 1928 xix 656

upon constitutional factors it is difficult to correct

Ulcerative colitis is an essentially chronic inflam mation of the colon which is subject to acute or subacute exacerbations The exact cause is unknown but the condition is almost universally believed to be of infectious origin. The pathological lesion is typi cal an I constant It is an erosion which in the ad vanced stages is associated with ordema conges tion and leucocytic infiltration of the entire bowel wall While the whole length of the large bowel is frequently involved the disease affects most com monly the rectum and sigmoid

The clinical manifestations are diarrhora with from six to thirty stools a day containing blood pus and mucus a varying degree of secondary anamia loss of weight in spite of a fairly good appetite slight lever a kucocy tosis and cramp like abdominal pain releved by evacuations. In the diagnosis the sig mor loscope is indispensable. The \ rav is of aid in excluding other causes of diarrhora and revealing the extent of the disease

The romplications of ulcerative colitis are arthri tis hamorrhage perianal abscess stricture polypo sis perforation and muligrancy

As the nature of the micro-organism responsible for the condition is not known the treatment bas not been standardized. The author has found a simple cacostomy for irrigation of great value Transverse ilcostomy is rarely necessary but is of benefit in selected cases. Its indications are repeated profu e colonic hamorrhages generalized polyposis an I long standing cases in which the colon has been converted into a useless fibrous tube

Dietetic and medical management are of great importance \ low residue diet of high caloric value

is indicated. Cod liver oil and calcium lactate by mouth may be added Stovarsol occasionally causes marked improvement

The author believes that ulcerative colitis is due to injection by the bacillus disenterize and should be regarded as a form of bacillary dysentery He there fore uses an autogenous serum obtained by injecting into animals the I lexner bacillus isolated from recent cases and believes that this treatment is likely to prove better than other methods

SAMPLE LABA M D

Adam L Primary Carcinoma of Baubin s Valve (Ueber das primacre Carcinom der Valvula Bauhini) Orroskép és 1028 XVIII 20

Carcinomatous growths of Bauhin's valve are quite rare and are difficult to recognize because the clinical manifestations begin with signs of intestinal obstruction The author reports the case of a patient fifts two years old who entered the clinic with a history of symptoms characteristic of gall stone colic or duodenal ulcer of six months, duration and with signs of intestinal obstruction for five days. A diagnosis of gall stone ileus was made but at operation the cause of the obstruction was found to be an annular neoplasm in the carcum. As the patient s condition did not allow a radical procedure the author divided the ileum 15 cm above the ileoencal valve inverted the distal end and brought the proximal end through the abdominal wound after introducing a dramage tube

The patient recovered so rapidly that two weeks later the lower part of the ileum the excum and the ascending colon were radically extirnated. The transverse colon was then closed blindly the loon of small intestine leading to the abdominal wall was divided and its proximal end was anastomosed end to side to the transverse colon, and the distal end and the ileostomy were removed Uninterrupted convalescence resulted

The opened specimen showed clearly how the ileocacal value had been forced into the lumen of the excum by the increased peristalsis of the small intestine with the production of complete obstruc tion Vicroscopic examination showed the tumor to be an adenocarcinoma

Fried II Roentgenological Study of the Inverted Carcum 1m J Roentgen 1 1028 xx 531

The execum becomes inverted as the result of congenital malposition associated with interference with its normal descent or prolongation of the meso colon and abnormal mobility of the ascending colon and cacum. Three cases of excal inversion are reported by the author From a study of these and similar cases Fried draws the following conclu-

1 The inverted excum 1 a clinical entity 2 It has both a clinical and a roentgenological

syndrome 3 The clinical signs and symptoms are fairly constant

4 The diagnosis can be established only by roentgenological study

5 When the execum is in the normal position or is high the diagnosis may be established by the ingested barium meal

6 A high excum will turn back to its normal post tion when it is distended with a harrum enema unless it is held by adhesions

In a low excum an ingested barrum meal will fail to show inversion because of the crowding and massing of the intestines but the harrum enema will reveal the inversion because the floor of the pelvis prevents the organ from turning downward and the intraluminal pressure forces it to turn upward

The standing position will bequently turn the inverted cacum down and the prone position will turn it un o Recognition of the inverted excum is of prime

clinical importance as it may prevent an unneces sary abdominal operation Apotra Harrens M D Monnier E The Diagnosis of Appendicicis in Childhood (Zur Diagnose der Appendicates im

Lindesalter) Schuer med Il chusche 1928 tvus The author reviews 1 056 cases of appendicitis in children which were operated upon with a mottality of 5 2 per cent In the cases in which the operation was performed on the first day of the illness there were no deaths All fatalities were due to peritonitis or perstoneal sensis. In one half of the fatal cases

the physician was called too late In one third though called in time he failed to recognize the nature of the condition. The cause of the error in diagnosis was usually a retrocacal position of the appendix or displacement of the appendix in the small pelvis

On the basis of these cases the author discusses the differentiation of the condition from scute gastro-enteritis acute colitis colonie spasm catar that saund ce tineumo occic and gonococcie pento nitis parasitic ileus perforation of Meckel's diver ticulum twisted ovarian cyst intussusception to berculosis of the mesenteric glanus acetonxmic vomiting pneumonis the early stage of measles scarlet fever chicken pox tonsilhtis pharyngitis pyelocystitis meningitis pulvic osteomyelitis and actino nycosis He states that when there is doubt as to the diagnosis operation should be performed Operation should be performed early STARLINGER (Z)

Rettman II W Chronic Appendicitis from the Viewpoint of an Internist Ann Int Med 1928

Chronic appendicitis must not be confused with recurrent appendicitis. The latter is an attack of acute or subacute appendicates. The more nearly the clinical picture suggests an acute attack the more certain the curative effect of an operation. When there is no history of a preceding attack of acute appendicitis and when the main clinical symptom is

distress in the right lower quadrant of the abdomes operation is almost sure to fail to give relief. If judged not by the pathologist's report but by the chinical results the results of operation for chrome appendicates are disappointing in 40 per cent of the cases

The belief that epigastric distress associated with shae tenderness on the right side means appendicula is to be deplored Operations for so-called chronic appendicatis are not harmless Even when they are performed by skilled surgeons there is a certain unavoidable operative mortality and serious after effects cannot always be prevented. One sequela of appendectomy which is far from uncommon-ileac stasss-has received little recognition or study. This is a distinct clinical entity. It has a fairly charac teristic clinical history and can be recognized by

Les examination Of more than 3 000 appendices studied by the author more than I too showed thronic tha ges of productive inflammation beginning with infilitation of the submucosa with round cells and ending in fibrosis The first changes occur near the up of the appendix and consist in infiltration of round ceus about the Meissner ganglia. This process increases until the ganglia may be completely buried in much cells The cells gradually decrease as the fibre is proceeds until the ganglia are embedded in dease scar tissue Corresponding changes are someones found in the ganglia in the neck of the g-il bl "her

Robdenberg believes that so-called chroric appear dicitis is due to a lesion of the s, mp thetic persons system which is not restricted to the appe dir slone but is probably general to the splanchoic sist m. Such a lesson nould explain the reflex gastric semp toms the attacks of spasm and pain and was te moval of the appendix or gall bladder or of buth does not always relieve the symptoms

SANCEL LARY MED

Hornung R A Contribution on the Relation Be tween the Appendix and the Genitalia (a) Carcinoms (b) Pseudomyroma (Beirag in Benehungen zwischen Apperdix und Gentale () Carcanam (b) Pseudomyxom) Zentralbi / Gvasch cook til Scor

The author reports a case of primary caremona of the appendix with metastases to both ovenes The diagnosis was confirmed by mic oscopic exami Lubarsch and others have described sonamon called carcinoids small nodules at the tip of the app ndiz These occur most frequently at an early age and show a tendency toward infiltrative growth but do not tend to form metastases or to recur Neverthele s they are true epithelial neopla ous and not inflammatory adenoid problerations

In the author's case of primary ca cinoma of the appendix the malgnancy of the tumor was evided The forty-one year-old from the clinical course patient died of metastases after five months

In the case of a woman fifty nine years of age with pseudomyxoma of the peritoneum involving

the overies and appendix the primary site of the condition could not be determined. There are reports of cases of my nomatous degeneration in both males and females in which the appendix was un doubtedly the primary focus Independent involve ment of both organs simultaneously is highly im probable llowever in the author's case the primary focus could not be determined since by the rupture of the appendix particles of mucosa could have been transplanted to the ovary and epithelial prolifera tion from the ovary could have been conveyed to the appendix by way of inflammatory membranes between the appendix and the ovary In such cases the spread is due to implantation of the cells whereas the metastasis of carcinoma of the appendix to the ovaries probably occurs by retrograde transportation of the carcinoma cells through the lymphatics

Smorer (G)
Lundh G On the Treatment of Prolapsus Recti

Acts thirting Scand 1928 Ixiv 58

The author has re-examined eights four women who were treated for rectal prolapse at the Malmo General Hospital during the period from 1906 to 1906 in fourteen cases the treatment was conservative consisting of

constitute of restriction of the diet rest in bed and lavage of the rectum. It surty nine cases a simple thermocauterization was done after conservative methods had failed. In one case the rectum was fixed to the uterus in connection with an operation for uterne prolosse.

Of the fourteen women treated conservatively

two were found on re-examination to have a recur rence One of the latter was subsequently treated by thermocauterization but the other refused further treatment.

Of the sixty-one women treated by thermocauter

of the sixty-one nomen treated by thermocauter tation who were traced all were free from their previous symptoms and two were found to have a ten slight degree of prolapse

Dukes C Urinary Infections After Excision of the Rectum Their Cause and Prevention Proc Roy Soc Med Lond 1928 xxii 259

In a series of fifty cases of excision of the rectumfourteen those of women and thirty six those of men -the author studied the frequency cause and pre vention of urinary infection by daily quantitative teets for pourta and repeated bacteriological ex amnations of the urine I yuria appeared from six to eight days after the operation in the cases of all of the women and in the cases of fourteen men in whom the retained catheter was sealed by a wooden peg la some cases the pus disappeared in four or five seeks but in the majorit) it was present for a fonger period For two or three days before the flow of pus began staphylococci were obtained in pure culture from the urine Later cultures usually showed a mixed growth of coliform bacilli and cocci The ksim in the female patients and in most of the male patients was cystitis In a few of the male patients the pus may have been due to urethritis

During convalescence from excision of the rectum urnary infections rarely produce obtrusive symp toms and the presence or absence of an infection can be determined only by regular microscopic examina tions for pus

Urmary infections following excision of the rectum are due not to the operation itself but to the means used for drainage of the bladder. In the cases of male patients which are reviewed by the author the most common source of such infection was the wooden peg used to close the retained eatheter. The substitution of a better seal resulted in the prevention of infection of the bladder urne in two thirds of the cases in which it was done, and in most third of the cases in which it was done, and in the late of the cases in which it was done, and in the late of the cases in which it was done, and in the late of the cases in which it was done, and in the late of the cases in which it was done, and in the late of the cases in which it was done, and in the late of the cases in the late of the case of the call because of the danger of contact between the catheter and local sense.

The prevention of urinary infection after excision of the rectum is a task requiring the close cooperation of the surgeon and pathologist. Regular micro scopic examinations of the urine for pus are necessary. The minimal number of weekly tests required to determine, whether infection has occurred and to

determine it early is six

The author recommends that patients who are to be subjected to existion of the rectum be given two doses of vaccine prepared from the bacteria which cause postoperative unnary infections the first dose to be administered as soon as possible after the diagnosis has been made and the second after an interval of from seven to ten days. Saurze Kan M D

Dieterieh II Experiences at the Giesen Clinie in the Radical Treatment of Rectal Carcinoma (Die Radicale Behandlung des Mastdamkrebses nach den Erfahrungen der Giessener klinik) 4rch f klin Chr. 1028 Cl. 601

The author reviews 364 cases of carcinoma of the rectum which were treated in the period from 1966 to 1927. A radical operation was performed in 234 Amputation of the rectum was done 73 times with a deaths. Resection of the rectum the operation of choice when the carcinoma is not too high was performed 112 times with a mortality of only 88 per cent. Combined resection was done 46 times for a high rectal carcinoma with a mortality of 195 per

The late results corresponded to those of other clause. They showed no differences in the various technical procedures. Of the patients operated upon hit the combined method 375 per cent were alive after three years. 218 per cent after five years and 188 per cent after eight years.

FEGURE(7)

LIVER, GALL BLADDER, PANCREAS AND SPLEEN

Horrall O II Bilirubin a Non Toxic Substance J Lab & Clin Med 1928 xiv 217

Using heart lung preparations similar to those of Knowlton and Starling and Lambert and Rosenthal modified for use with one dog the author tested highly purified bibrubin extracted from gall stones of cattle

Hepanin was spected intravenously to prevent clotting Blutuhn dissolved in various solutions such as 1 per cent sodium carbonate 1 per cent sodium heracide human serum and dog serum was injected into the blood stream of mice dogs with heart lung preparations Sight variations in the pulse rate occurred corresponding to the usual contractions in the control heart lung preparations are such as the control heart lung preparations with the control heart lung preparations are manufactured to the control heart and the lungs became decents, colored about the heart and the lungs became decents, colored as

4 o 662 per cent solution of sodium gh cocholate introduced intravenously for comparison caused an immediate fall in the blood pressure arregularity of the heart action and cessation of activity with acute d latation of the entire heart Sodium cholate 0 47 per cent caused irregularity of the heart action and a fall in the blood pressure. Whole gall hladder bile 5 c cm in 210 c cm of blood caused irregularity of the heart action with a marked increase in the amplitude of the beat. Atropine then caused slowing of the rate but adrenalin had very little effect second injection of bile eaused a marked increase in the amplitude of the beat and an increase in the rate but this was soon followed by cessation of the heart action. What appeared at first to be the stimulating action of bile quickly paralyzed the heart

The author concludes from these experiments that bilirubin has no effect on the heart STALLEY H. VENTZER M.D.

Katayama I Bile Acids in Jaundice Arch Int

It has been known for many vests that bile acids circulate in the load that they are rapidly absorbed from the intestinal contents and re appear in bile in ten normal persons the bile acids of the blood serum averaged y mgm per 100 c cm. There were no bile acids or troblin in the urine as indicated by the author's colorimetric test for the former and Elman and Vichlasters quantitative test for

the latter

An recrease in the bile acids in the blood serum
associated with the exerction of bile acids in the
urine was found in eight cases of collections of the
cases of thesease of the liver seven cases of catarrial
jaundice five cases of obstructive jaundice and
three cases of cardiac decompensation

Ble acids appear in the urine when the concentration of this acids in the blood serum carceds so migra per roc cm. Acute obstructive or catarbal justice produces a rapid rise in the lide set he of the blood crum from about five to seven times the moreal figure in chronic obstruction bowear the morea, in bile acids in the blood is only to three or four times the normal Flux smaller concentration of bile acids in the blood is only to three or four times the normal Flux smaller concentration of bile acids in the blood in chronic obstructions may be explained the explained their

The pro fuction of bile ands in the body is limited Aormally these arola are exercited by any of the bile into the intestine and are then re also pled and enter the circulation. Accordingly the radio in the body are kept at a constant level by a containing a particular of long standing there is a containing a containing a containing according to the containing acc

STANLEY II MENTER MD

Wolfer J A and Christian L W Pancraric Function Tests with Special Reference to the Quantitative Determination of Facial Analysis Arch Surg 1928 xvii 899

Clinical diagnoses of pancreatic di ease cannot be established by present tests with any reason ble degree of accuracy

I agreeatte tissue is normally present in an amount far in excess of the enzyme requirement. Therefore unless a considerable portion of the gland is diste at there is no increase in distates in the blood or une or decrease in the faces or duodrail continuit stepl in cases of obstruction to the outflow of digester therefore.

The authors review the results of numerous tel of pancreatic function reported in the literature. Aone of the verified tests so of striking white exopt Wohlgemuth's and McClure's determ, tone of faceal amplaise which indicate obstruction to the outhlow of nancreatic secretion.

Amplace is the most reliable of the parcetize enzymes for stool tests. The authors used the first modification of the Wohlgemuth test and the stool order reaction in preference to the opper reduces reaction. Facal anylase determinations in bernil persons were made in three groups of his winder each on a fixed diet. The dustaise seemed to tark with the dark and a given duck had pratically the same stamulating effect on the pancies in all normal Decrois.

Netermonations of freel amplies were than mis an extension of cases of chronic patients its field biase; cholecyatitis eholedocholithasis and case of the patients. These demonstrated that deri obstruction as well as diffuse involvement of the patients of

Experimental work on one showed that the administration of 1 at pet errol lattic and or 10 pet errol lattic and or 10 pet errol lattic and or 10 pet errol lattic and so that with a stranger of the pet error lattic and the stranger of the

Geinitz R Hyperglycæmia in Acute Pancreatic

Geinitz R Hyperglyczemia in Acute Paliterasis Necrosis (Hyperglykaemie bei akuter Paliterasis krose) Zentralbi f Chir 1928 p 2009.

The patient whose case is reported was a woman of forty four years with total pancreatic necrois of

WORTMAN (Z)

the hamorrhagic variety. On the fourth day after operation pus appeared in the urine and the shood sugar value was 341 mgm. Twenty units of insulin were then given subcutaneously three times a day at the end of a week the blood sugar was 236 mgm. Death occurred eleven days later.

The remarkable features of this case were the high blood sugar the good effect of the insulin and the presence of stones in the bile passages which were probably the cause of the panieratic necrosis

Henchen C. and Relatinger. H. Contributions on the Clinical Physiology of the Spleen Expert of the Control of the Spleen of the Spleen and the Control of the Spleen is City cuitation and the Closure Mechanism of the Splence Arter (Beitrage; art Jamschen Physiologe der Ville Experimentelle Untersachungen urber die Volumeach-Snatigen und die Contrachitact der Mila urber ihre Durchhaltung und wher de Sptramechanism der Villeartene)

Deutsche Zisch' f Chir 1928 CCX : The authors studied first the effect of the most commonly used anæsthetics on the volume of the spleen They found that in deep ether anasthesia there was no change in the blood pressure and the splene volume remained unchanged. In chloroform angsthesia both the blood pressure and the volume of the spleen decreased but after the anasthesia was discontinued they increased again. The spleen shut itself off from the rest of the splanchnic area. In the vessels of the brain and intestines the circulatory rate increased whereas in those of the extremities and spleen it decreased. The authors conclude that the decrease in the red blood cells with an unchanged hamoglobin content during chloroform anasthesia is not due to splenic function

Further experiments dealt with the effect of loss of blood of pericardial effusion affecting the heart force and of adrenalm on the volume of the spleen From the summary and conclusions it is seen that ether has no effect on the hæmodynamic function of the spleen whereas chloroform has an irritative ac tion on the neuromuscular mechanism of the spleen causing it to contract Therefore in sepsis chloro form is to be avoided in order to prevent the entrance of a flood of toxins and bacteria into the circulation In hamorrhage the spleen often acts as a protective organ equalizing the loss by giving up blood to the et cu'ation. In infusions and transfusions, the spicen may prevent overloading by taking up the excess Following pericardial effusion affecting the heart force a decrease in the volume of the spleen was noted Adrenalin decreased the size of the spleen Therefore by painting adrenalin on the surface of the spleen or injecting it into the organ it might he pos sible to avoid splenectomy

The rest of the article deals with the blood supply of the sphen. The amount of blood flowing through the organ even in the resting state is astomshing it the beginning of the influence of adrenalin the quant to of blood is reduced three and one fourth

times but the blood pressure remains high so that he function of the spleen remains constant. With cessation of the action of adrenalm, the quantity of blood flowing through increases to more than the mutat values (enlargement of the spleen begins). When the spleen contracts resistance within it increases so that less blood flows through

Further investigations dealt with the self exclusion of the spleen from the circulation GLASS (Z)

MISCELLANEOUS

Lemon W S The Function of the Diaphragm

The diaphragm develops high up toward the head from a five fold embryone origin (1) the septum transvenum (2 3) derivatives of the mesenter (4) derivatives of the pleuroperitioneal membrane and (5) derivatives of the body wall. It then migrates eaulylls into the colom and constitutes the first partition dividing the colom into its two primary divisions. The division of the cellom into two com partments by the diaphragm is therefore a function of the diaphragm.

By comparing embryological and anatomical study with a study of function it is learned that when new function is required because of expanding activities and new environmental changes organs develop to make the new function mechanically possible. New organs appear to perform functions Respiration however is a fundamental function which was developed long before the diaphragm de veloped. The diaphragm came to its perfection when the functional activities of mammals required the power to increase pressure within the colom at will and at the same time required protection of the heart and lungs from the effect of such temporary excessive pressure Development of this function is necessary for the birth of offspring. It is logical then to believe that the primary function of the diaphragm is to provide for increased intraccelomic pressure When the diaphragm developed thythmic motion it hecame a true respiratory organ its contractions increasing the long diameter and the volume of the chest increasing the negativity of pressure and causing air to fill the lungs and blood to flow into the heart It therefore appears that the diaphragm is an organ designed primarily to effect pressure within the ecclor by acting in opposition to the muscles of the abdomen and that it has a secondary function involving both respiration and circulation

Surgical procedures and experimental study on animals have challenged the importance of the dia phragin as an organ of respiration. The results of such experimental work are outlined as follows:

1 In animals as well as patients on whom unitarial phene neurectomy had been done paralivas of the hemidiaphragm resulted rendering this portion of the organ functionless except in the capacity of a partition which divided the cecloim into two parts. The usual risk thinic movements were carried on by the intercostal and the accessory muscles.

modified for use with ore dog the author tested highly purified bilirubin extracted from gall stones of cattle

Hepann was injected intravenously to prevent clotting. Bliriban dissolved in various solutions such as 1 per cent softium carbonate r per cent softium had to be continued to the continued to the blood stream of nine does with the clotter long preparations. Slight variations in the pulse rate occurred corresponding to the usual results of the continued to the co

A a 662 per cent solution of so hum glycocholate introduced intravenously for comparison caused an immediate fall in the blood pressure irregularity of the heart action and cessation of activity with acute dilatation of the entire heart Sodium cholate o 47 per cent caused irregularity of the heart action and a fall in the blood pressure. Whole gall bladder bile s c.cm in 210 ccm of blood caused irregularity of the heart action with a marked increase in the amplitude of the beat. Atropine then caused slowing of the rate but adrenalin had very little effect second injection of bile eaused a marked increase in the amplitude of the beat and an increase in the rate but this was soon followed by cessation of the h art action. What appeared at first to be the stimulating action of bile quickly paralized the beatt

The author concludes from the experiments that bilirubin has no effect on the heart

Stanley II Mentzer W.D.

Katayama I. Bile Acids in Jaundice. 1 ch. Int.

iled 1928 xin 910

I has been known for many years that bile acids circulate in the body that they are rapidly absorbed from the intestinal contents and re appear in bile.

In ten normal persons the bile acids of the blood serum averaged 7 mgm per 100 c cm. There were no bile acids or urobin in the urine as inditated by the author's colorimetric cest for the former and Elman and McMaster's quantitative test for the latter.

An increase in the bile acids in the blood serum associated with the excretion of bile acids in the urin, was found in eight cases of cholecystin four cases of disease of the liver seven cases of catarhal jaundice five cases of obstructive jaundice and three cases of cardiac decompensation

Byte acids appear in the urine when the concentration of bile acids in the blood settime acceded so migmper too c.m. Acute obstructive or catarhal juum due produces a ripid rise in the bile acids of the blood serium from about five to seven times the blood serium from about five to seven times the norsal figure. In chronic obstruction however the increase in bile acids in the blood is orly to three or four times the normal. This smaller concentration of bile acids in the blood in chronic obstructions may be explained their The production of bule audis in the body is limited, hormally three audis are extracted by was of the body and the intestive and are then re absorbed and enter the circulation Accordingly in the bile axis in the body are kept at a constant level 1 no obstructs stundice of long standing there is a continues excretion of bile axis by the bather the store of his axis in the body, being threely dep! ted

STANLEY H MENTER MD

Wolfer J A and Christian L W Pancreau Function Teacs with Special Reference to the Quantitative Determination of Facal Amplay A ch Surg 2008 Xvv 800

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Amplese is the most reliable of the pastratic reasymen for stool tests. The authors und the line moduration of the Woblgemith test and he sarch sodine reaction in preference to the opposition reaction. Facilities also will be determinations in normal persons were made in these groups of the school no affect diet. The distants seemed to write with the det and a given diet had pincish the same stimulating effect on the panetess in all on all.

Determnations of feed amplace were two makes messens of cases of hornous panceratus chelds them as the decayatus cheledocholulasis as fastered the panceras. These demonstrated that exhibituration as well as diffuse moviement of panceras produces a decrease an facial swyles the involvement of the panceras produces a decrease an facial swyles will involvement of the panceras however cannot be determined by this method.

Experimental work on dogs showed that the administration of 125 per cent lactic and or 139 per cent lactic and or 139 per cent lactic and or 139 per cent sodium bearhoante through a symmetrial atminist ed pancreatic secretion as determined in atminist ed pancreatic secretion as determined facral amylase tests in 18 a satisfactory pancreatic atministrat such as pumified secretin ca be found facral anylase tests may be of value.

STABLEY H. ME THEN MID

Geinitz R. Hyperglycæmia in Acute Pantrack Necrosis (Hyperglykaemie bei akuter Pankraskro e) Zentralbi / Chr. 1928 p. 1954

The patient whose case is reported was a women of forty four years with total pancreatic necross of

GYNECOLOGY

UTERUS

Damm P The Operative Treatment of Profuses with Special Reference to the Interposition Method Acta obsisest synes Scand 1928 vil 179

This report is based on 231 cases of prolapse texted in Diskonnesstifticism in the period from 1912 to 1926. Interposition of the uteria was done roly times cheefly in cases of marked prolapse. In the cases of 24 women who were still menstruating the operation was supplemented by bulsteral re-section of the tubes. Amputation of the cervix was performed only when there was hypertrophic cloquistion. A senile atrophic uterius was regarded as 2 counts indication. In cases of hypertrophy of the 2 counts indication. In cases of hypertrophy of the Adouble, the count of the count of the country of the count

There were 4 postoperative deaths. The mortality of the interposition operation was 3 8 per cent. Two of the deaths following this procedure were due to intercurrent causes. In a case of strangulation harmorrhage the interposition was followed by vagual hysteretomy. In I case an interposition operation supplemented by the enucleation of 6 persition supplemented by the enucleation of 6

blomata was complicated by infection One hundred and one of the patients were subsequently retainment at the hospital and 79 were requestioned by letter Of the latter 19 were reduction by their family physician. The incidence of fection of the complete for the

Phaneuf L L The Benign Lesions of the Uterine Cervix and Their Treatment New England J Med 1928 exerx 1243

The common benign lesions of the cervix are endo cervicitis lacerations and polypi Endocervicitis may be secondary to gonorrhoza or postpartum or postabortal infection It usually persists after infec tion of the other genital organs has subsided Sturmdorf Curtis Matthews and Davis have dem onstrated that chronic endocervicitis is an infection of the cervical mucosa which may spread to the deeper cervical structures and the parametria tubes ovaries and pelvic peritoneum. Cervical erosions follow endocetvicitis In chronic infections the cer vical mucosa is everted and the mucosa of the por to vagnalis in the region of the external os develops a circumscribed area of glandular proliferation Under the stimulus of the infection the cervical c)lindrical epithelium extrudes itself on the onter

portion of the cervical rim replacing the normal stratified epithelium and thereby forming the ero sion or red area found in that region. Accordingly, the crosson is not an ulceration but the formation of new glandular tissue which may be regarded as precancerous. When the glands become occluded and filled with mucus they are called nabothan cysts.

Endocervicitis may be treated by the local application of antisepties by cauterization or by radium irradiation. In the severe forms, the best results are obtained by the tracheloplasty of Sturmdorf.

The treatment of lacerations of the cervix varies with their severity Slight tears usually bead spon tineously or respond to cauterization and dia thermy. The more severe lacerations may be treated by the Emmett or the Sturmdorf operation. Obstetrical lacerations of the cervix should not be repaired until the cidema has completely subsided and normal involution of the uterus has taken place.

Certical polypishould be removed. Their removal may be simple when they are single, but becomes complicated when they are numerous. Oceasionally amputation of the certification when they are numerous of the base followed by small doses of radium will effect a cure

Adequate treatment of endocervieits and of cervical lacerations and polypi will relieve the symptoms
of these conditions and lower the incidence of cancer
of the cervix SAMUEL I FOGELSON M.D.

Fitzgibbon G Fibromyomata Irisk J W Sc 1928 No 36 73S

Fibroids develop as a rule between the ages of thirty and thirty five years and reach their full growth in a few years. After their development they remain quiescent until the changes of the menopause beginn when in the majority of cases they give rise to symptoms. Degeneration of fibroids tends to occur at the time of the energopause. Unmarried women are more prone to develop broids than married at the time of the energy of the control of the fibroids are not extend to the control of fibroids and the control of the control o

Before the menopause myomectomy has a large place in the treatment of abroids. When pregnancy is complicated by fibroids causing symptoms myo mectomy may be performed during the early months with safety. Myomectomy is not followed by the ill health that results from hysterectomy and does not lead to trouble later at the menopause.

The author reviews 210 operations for fibromata of the uterus ABRAHAM A BRACER M D

Compensation was so good a factor in respiration and the disphirage of such scondary importance that the movements of the cheet wall as a whole cord any of its parts were not influenced by the paraly six This conclusion is established by observations clim call evanimations kymographic records and measurements of the expansive excursion. Cavall observers were unable to distinguish the phrene consider animal from the normal animal. Fatients in the control of the contro

2. After unthateral section of all of the intercostal nerves in does the animals have denofortable nerves in does the animals have denofortable and compensatory function was no complicit the thirt in was inth difficulty that any loss of either thorace movement or response to exercise was seen. This was true also when the intercostal nerves were bulbaterally sectioned when one phrenic was eventually sectioned when one phrenic was eventually and the succession of the section of the section of the section of the section of the muscular equipment was every large part of the muscular equipment was from this point compensation begin to fail and from this point compensation failed in direct relation to the loss of muscular equipment.

tion to the loss of miscular equipment

3. Animals with hall the disphragm paralyzed or
with the whole muscle endered functionless regained
the immediate foos in vital capacity before the strip
the immediate foos in vital capacity before the strip
as those enjoyred by normal namils. The sprometer
those of the time as the strip of the same amount of
six in a unit of time as their normal mates of the
amme which. I aluents responded in the same ways.

4 Dog and man can live and maintain tidal air requirements when all diaphragmatic function is lost and when all but the diaphragmatic action is lost

5 In a study of the effect of unilateral phren cotomy on the ability of the lung to aspirate broachan material into remote portions of the bronchial tree it was fourd that the lung was put at rest hy sbort ening the long diameter of the thorax and hy pre venting movement in that diameter but that suction during inspiration was sufficient to cause asourt or of the bronchial material

6 The disphragm is a muscular partition dividing the excloim into two parts. It two chef functions are the provision of an increase in pressure within the coloim when this is required and a respirator, function dependent upon its ability to contract rolythmically and synchronously with other reparators muscles.

7 Compensation is so powerful that displing matic paralysis does not greatly after respiration or circulation and has little if any effect on other muscles of respiration.

Caldbick S L Two Cases of Visceral Fistula Treated without Secondary Operation S & Clin A Am 1928 vii 1337

Caldback reports two cases of visceral fistals de veloping after abdominal operation and urges con servative treatment of such fistals.

In one case the fistula developed on the forgastic uncertainty of the excision of a perioratel
gastic uncer and removal of the diseased opposition
and gall bladder. It drained gastic contents. The
particular made a complete recovery and left the bas
putal on the thritteth day.

In the other case the duodenum was unwefu at course of a difficult operation for stoons in the own mon duct. It was immediately repurse but of their day a single the operations there was a profue discharge of Ircal matter and unds exist food through the incesson. When the patient left the hospital on the thirty fifth day as 1/h dremage of the still persisted but ultimaths! complete recovery

resulted

In the management of these cases to per cent
glucuse and physiological salt oution were used
glucuse and physiological salt oution were used
freely

Levis P Gausse 1D

relation to the menstrual period whereas in 17 it occurred within three days before or after the period and in 22 it occurred during the menstrual flow At the time of menstruation to of the women had been given treatment and 20 had not. The medication which was followed most frequently by adnexal involvement was that which caused the most marked general reaction-the use of the various silver and dve preparations Vaccine therapy had much more favorable results. High fever seemed to be particu larly dangerous since in the cases of an nomen who were given general treatment with various prepara tions and who had no fever there was no adneral involvement. Accordingly the author believes that Zieler's vaccine treatment should be used more extensively but not during the menstrual periods As local treatment he recommends I ust a capsules together with the use of cervical suppositories. In the cases reviewed the incidence of adnexal involve ment after such treatment was only 6 per cent

Of the 49 women who had adnexal involvement
when they were admitted to the hospital the condi-

tion was chronic in 32

Of 122 women who were traced 10 had had 1 recurrence 2 had had 2 recurrences and had had 3 recurrences In 12 1154 ances the cause was believe I to be the menses or the treatment and in 5 cases both the menses and the treatment

In the cases of gonorrhem of the uterus a cure was obtained in 89 per cent (at least 3 provocative treat ments with 7 microscopic examinations) whereas in those with adnexal involvement the incidence of the was 86 per cent

Komocki W A Case of Bilateral Anglohyper nephroma of the Ovary (Ein Fall von beider setigen Anglohypernephroid des Ovariums) treh f pala Anal 1028 Celvis 70

Bilatral tumors were removed from the small belves of a woman thirty seven years of age who had mentruated normalis not the day of opera to The tumors were composed seven to the tumor seven composed to the tumor seven composed to the tumor seven the

EXTERNAL GENITALIA

Greenhill J P Vaginat Discharge Due to Tri
chomonas Vaginalis in J Ob 1 & Grice 1928

The tuchomonas vagunahs as a parasitic flagellated protosonan which causes a persistent vellowish green bubbly vagunal discharge. It is very difficult to discuss the protoson of the protoson of the protoson of the parasity of the hanning drom method.

(reeshall describes the technique of collecting the specimen from the vagina the method of setting up the hanging drop slide and the characteristics of the

organem His method of treating the vaginal discharge consists in the use of green soap methylene blue glycerme and lactic acid Of forty cight patients subjected to this treatment and followed up subsequently 80 6 per cent were found to be cured The duration of the cure ranged from two to forty right months. Hawvey B Matriners MD

Bissell D Genito Urinary Fistula in the Female with an Appreciation of Sims and Itis Work Proc Roy Soc Med Lond 1928 XVII 179

Bissell urges more general use of the Sims method of closing genito urinary fistulæ in the female. In describing the technique of this operation he empha sizes that the denudation around the vaginal orifice of the fistufa should be broad and elliptical and should extend down to the immediate region of the bladder mucosa but never into it The needle should penetrate deeply the vesicovaginal septum but should not enter the bladder mucosa A silver wire suture is attached to a carrying thread which in turn is attached to the needle. The wire loop by which the wire is attached to the carrying thread should be crushed so that it will meet with minimal resistance on being pulled through the tissues. The wires should be twisted only enough to appose the de ABRAHAM A BRAUER M D nuded tissues snugly

MISCELLANEOUS

Benthin W Genltal fformorrhages in Old Women (Contale Blutungen am Gressenalter bei Frauen) Deutscho med is chrische 2028 in 727

In 56 of 131 cases of genital homorrhages in old women the bleeding was due to carcinoma. In 75 cases there was no neoplasia.

The causes of gential hemorthage in old women niclude senile adhesive colpits, ulcration associated with prolapse ulceration due to the pressure of a pessart urethral polyps pruntis leucoplaka with scratch wounds and milignancy of the labia ure thra and vagna. The causes in the upper portions of the gential tract are cervical polyps crossions of the portion trauma injuries from cortiss tuberculous ulcers and wariees. Those in the body of the uterus are submicious momanta carenomata and benign

In the cases reviewed inflammatory processes in the endometrium were common their incidence being more than 50 per cent. In 2 cases they were associated with an ovariant tumor. Mucous polyps were found in from 25 to 30 per cent of the cases. Such polyps are often very vascular and bleed profusely. They are frequently associated with marked thickening of the my ometrium. Another cause of genital harmorthage in old age is apoplexy of the uterus.

Before treatment is begun it is important to make in exact diagnosis of the location and cause of the harmorrhage. In the examination the bladder must not be forgotten. Micro copic examination of removed tissue is essential. 441

Thaler II Lipoma of the Uterus (Ueber Uterus hpome) Arch f Gynack 1928 citing 350

Two cases of lipoma of the uterus are reported The first was that of a noman sixty five years ald whose menopause had occurred seventeen years before For one year the patient had noticed en largement of the abdomen associated with emacia Framination revealed a spherical uterine tumor which extended three fingerbreadths above the umbilious Total extirpation was done. In the right wall of the uterus there was an intramuscular tumor the size of a child's head. Cut section revealed the center to be colored like the yolk of an egg. Around the center there was a blush yellow zone and external to that zone a firm layer of white tissue Histological examination showed the tumor to consist partly of pure lipomatous tissue and partly of fibrolipomatous tissue

In the second case the uterus was removed for colloid carcinoma and the right uterine wall showed an intramural lipoma the size of a cherry

Lipoma and fibrolipoma of the uterus have been reported in the literature only five times

Neimann (C)

Schmitz II The Diagnosis and Treatment of Uterine Cancer New Linguish J Med 1928 CRClx 1140

Carenoma of the cervas begins as a solitan focus a nodule. It never grows in belially issues or open and the recond stage of carcinoma is that of determined has been been as the recond stage of carcinoma is that of determined action as cells to decay because of their poor blood aupply. When the carcinomators ufeer is touched with an applicator it bleeds freely and the bleeding as attental and continuous. When the case is seen at this stage, excision of the ufeer should be done for diagnosis. The first two stages do not cause synthesis to the first two stages do not cause synthesis finablity or necross of the tumor tissie with as eduly hown or sanguinous discharge and a cadavent or putral door due to infection.

The first sign of cancer of the body of the uternus arrequire likelong. This cancer is expectably decrey and necrouse the external os and the vagual mucosa may appear perfectly normal. When a thin stream of bright red blood etcapes from the cervical cand on the introduction of a sound and especially when the tracking of blood continues for some time after manupulation malignancy should be suspected. The cervical canal should then be dilated and an immediate frome section examination made af

curetted tissue
The author classifies carcinomata into four

groups

r The clearly localized carcinoma. This tumor is the size of a navy bean and has not affected the

mobility of the uterus

2 The borderline carcinoma. There 1 a wide or
peripheral invasion of the cervit or body of the
uterus the paracervical tissues have a dought con
sistency and the mobility of the uterus is decreased.

3 The moperable carrinoma There is white tron of one or both parametra with or without regional lymphatic involvement and with or without invasion of adjacent organs. As a mass the strue tures are stull movable.

4 The terminal carcinoma This tumor is characterized by fixation of tissue wide local extent

of the disease and distant metastases

Cases in Group 1 are treated either surpoilly or with radium those in Group 1 with radium and the \rays by a combined method which is described those in Group 4 by radium and \ray treatment and those in Group 4 by palliative measures A cancer that is fixed always offers an unfavorable prognosis

The five year end results obtained in 331 cases of primary carcinoma of the uterine cervix treated with the combined radium and X ray method were

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| 1 | 21 | 18 | ,8.1 | | |
| 2 | 43 | 20 | 41 63 | | |
| 3 | 16z | 20 | 12 42 | | |
| 4 | 100 | 00 | 00,03 | | |
| | | HARRY TI | FINE M D | | |
| | | | | | |

ADNEXAL AND PERIUTERINE CONDITIONS

Reisner A The Relation of Local and General Treatment of Gonorrhom in the Fernale to Extension of the Condition to the Uterial Adversa (Dre Bedeutung der extinct und die mennen Defendeung erst und die zu den die der Schaffung er und die Geschen bei der Schaffung in der Schaffung und die Geberauturen haten der Zitche f Gefenst un Gynsch 1928 zum 6-56.

In the cases of any women with ponorthus who were priven careful study (regular examinations of the admena by a genecologial) Reisner found that rid per cent the saie of the ponortheal infection was the uterine cerviz. The case of the a zerol of the infection was the standard of the admena may have been that the rid blood and serum in the pureprishing at other times the standard of the standard

the treatment of gonorrhous One hundred and thirty four (3) per cent) of the nomen had adnexal disease. In 40 case the adnexal wave diseased when the patient entered the hopful no 67 the adnexal involvement began due the patient as tax in the hoppul and the patient and the second of the adnexal involvement began due to the patient and the patient a

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Guthmann II The Practical and Scientific Value of the Lateral Roentgenogram in Pregnancy (Was lester die seutiche Schwangerschaftsaufnahme fuer Wissenschaft und Pravis?) Zentralbi f Gynaek 1038 hi 1005

The author reports his studies with short distance exposures which have the advantage of placing a smaller load on the tube but require somewhat mnre correction of magnification errors and his studies with exposures made at a distance of 2 meters in which the pelvic diameters on the plate are always multiplied by the factor o or In the latter he in creased the current to from 80 to 100 kv which in senal reeptgenograms proved to be the most suitable current. When a lesser voltage is used the roent genograms show less contrast and when a greater voltage is used the picture is rendered less distinct by scattered rays Nevertheless it is possible also with 140 kv and a therapy apparatus to make suffi tiently distinct roentgenograms (6 ma exposure of thirty seconds Potter Bucky diaphragm and e 2 mm of copper)

For exposures at a distance with a diagnostic of apparatus the factors necessary are a distance of apparatus the factors necessary are a distance of apparatus the factors necessary are a distance of a second of a contract of two hundred and thirty seconds. Our near exposures the corresponding factors are a former of the contract of

exposure

The lateral view shows the form of the saeral contacts and the position and mobility of the energy. The author found the promontorium at the level of the pelvic inlet in only about 15 per cent of the eases. In the majority it was more or less higher Therefore it is impossible to determine the level in

the pelvu inlet correctly by the method of Faber With regard to the prognosis of labor in cases of narrow pelva the lateral exposure gives more information than the frontal exposure. When in a case of senerally contracted pelva there is extreme ficano of the child is head and the conjugata vera is mily fom \$10.7 mm. greater than the diameter of the head it may be concluded that even maximal moodling will not permit passage of the head. If the termal conjugate is from \$1.0 ft ft milk of the formation of the child is the confidence of the confidenc

The inclination of the symphysis and of the pelvis may be determined exactly by the lateral exposure Also by this method it is possible to measure the diameter of the child's head exactly and in deter

mine the shape of the head its level in the pelvis (which is of importance when the abdominal wall is fair rigid) its engagement and its position Analises of position are detected more readily in the presignogram than by external palption. The author frequency of the strength of the president author frequency of the strength of the president period of the strength of the author of the president ments but this was usually corrected spontaneously in the further course of the labor.

Serial lateral exposures during the progress of labor give a good insight into the mechanical processes of labor and will probably clear up many of the prohlems that as act are unsolved

KABOTH (G)

Eufinger II The Function of the Liver in Preg nancy II The Occurrence of Viscerosensory Ilepatic Bile Reflees in Pregnancy (Die Leber ination in der Schwangerichaft II Dis Auf ureten viscerosensibler Lebergallenrefleze in der Schwangerschaft) Arch [Gynack 1928 errein 173]

It was shown by Westphal's investigations that during pregnancy there is a variation in the function of the biliary tract. In a review of the case histories of the Frankfort Gynecological Clinic the author found that in 4 070 deliveries in a period of three years pronounced gall stone colic occurred 24 times and acterus 15 times Eufinger believes that in the viscerosensory reflexes of Head and Mackenzie we have phenomena which are of value in the diagnosis of disease of an internal organ especially since these reflexes can be elicited after the other clinical signs have disappeared and therefore reveal latent conditions of irritation According to Head and Mac kenzie the spinal cord segments for the liver and biliary tract are the seventh to the tenth dorsal segments

The author's investigations indicate that viscrossensors shit reflects in the so called Head zones can be demonstrated for these dorsal segments in about 35 per cent of cases of normal pregnancy. As the pregnancy progresses the probability that the reflects can be elucted hecomes greater. No difference is fund between primipate and multipare. In the pureprimi mo zones are discoverable

part and the purpose and most seed accoverable we whose aft a functional distribution of the last and inhibitory tract particularly in the later months of pregnancy at they are accompanied by a corresponding increase in bilitrubin values. In cases of hypere means and eterns he regularly moted a hepatic zone in the ather toxicoses there was no desistion from the contract of the constitution can be excluded at the influence of the constitution can be excluded at the influence of the constitution can be excluded at the influence of the constitution can be excluded at the influence of the constitution can be excluded at the influence of the constitution can be excluded at the influence of the constitution can be excluded at the influence of the constitution can be excluded at the influence of the constitution can be excluded at the influence of the constitution can be excluded at the influence of the constitution of

The purpose of this article is to emphasize the fre quency of benign causes of genital harmorrhages in old women and the importance of a correct diagnosis Bouncen(G)

Williams E The Acute Pelvis Bett W J 1928 11

The author divides his cases of acute pelvec condtions into those with feet and those with shock. Of the conditions in the first group he discusse cheefly acute subjugities and of those in the second group extra ulenne preparacy, and twisted ovarian cyst He emphasures the importance of therough examina sufficient exposure at operation to allow thorough exploration. Call II Davis M D

Jarcho J The Artificial Production of Sterility
Am J Obsi & Gynec 1928 xv1 513

The artificial production of sterifity is a subject of much importance to the physician who is called upon to advise married women who are physically unfit to bear children It is generally agreed that such
women should be instructed with regard to contra
ceptive technique or if they become pregnant sub
jected to therapeutic abortion

The use of contraceptives is inconvenient and in reliable and as it interferes with normal intercouse it must be more or less harmful to the nervous system. Surgically induced sterlify is usually

System Dermaner

During the last few years considerable work has been done with regard to the hological prevention of conception in female animals by the injection of placental or ovarian extracts of pregnant animals the transplantation of ovaries of pregnant animals and the parenteral introduction of softmatorea.

Jarcho states that although it is still in the reperimental stage biological immunization of the female organism to seminal products (spermatotom) offers great promise as a clinical means of produce temporary sterility. As the method will be causely in the hands of the physician it can be used only for therapeutic purposes. Haveyr B Marreas U.D. Lane Roberts G S Abdominal Pain in Pregnancy
Lanet 1018 CCV 1 88

Among the most frequent causes of abdominal pain in pregnancy are constipation flattlence and the stretching of an unduly sensitive uterus: the abdominal skin and the round lagarents. Cases in shich the pain is of organic origin may be divided into their groups. (1) those in which the pain seems to the pain in the pain is of organic origin may be divided to originate the description of the pain seems to be about the pain in the pain in the pain is of the pain in the pain in the pain is the pain in the pain in the pain is the pain in the pai

Pao limited to the uterus may be due to undue stretching of the uterus such as occurs in dual preganacies and polyhydramnos for fibromata particularly those of the subperitoneal pedunculated type multiple fibromata causing pressure and aformata undergoing degenerative changes to conceiled harmorrhage to hydatiform mole causing subsensities that of the undergoing of the uterus of to trupture of the properties of the propert

Among the causes of pain originating in the address are the rupture of an extra uternic pregnancy ownin. It was the rupture of an extra uternic pregnancy ownin and address and rotating or degenerative changes salpingitus and salpingin opinfontits blood in the perindenal cavity from the rupture of a tubel ownin or cornival pregnancy or an old uternic scar and addominal pregnancy perior at term

Estragential conditions which may be the cause of pain during pregnancy include the pyelitis of pregnancy acute appendictis intestinal obstruction choles stitus and allied gall bladder lesions acute pneumonia renal ureteral and vesical calculi and stude suppurative pelvic peritoritis

HARVEY B MATTHEWS M D

Pobl A The Early Diagnosis Etiology and Treat ment of the Pernicious Type of Anæmia an Fregnancy (Zur Fruchdiagnos-Actiolome und Therapie der perniciosartigen Gra-aditactsanamie) Zentrall J Gynack 10-28 lb 1346

The increase in the number of reports of perincious types of anima in pregnancy has been due without both to the work of Lisch which was published in a both to the work of Lisch which was published in a both to the work of Lisch which was published in a both grain as well developed. The author believes that the anima is well developed. The author believes that the arm of the condition as several of the chef first stages of the condition as several of the chef which was the condition as several of the chef which was the condition as several of the chef which was the condition as the condition of the pregnancy that the cure was due to unterruption of the pregnancy that the cure was due to unterruption of the pregnancy.

The patient was a twenty year old primigravials with oblistics of choices. Since the second month of the preparaty she had had a systop-gluts. In the fourth month, the hermoglobin was a sper cent. In the suth month, the hermoglobin was 42 per cent the crythrocyte count; 3,000 000 the color index to the crythrocyte count; 3,000 000 the color index of the crythrocyte count; 3,000 000 the color index of the crythrocyte count; 3,000 means a weak of the crythrocyte count of mears showed only oper cent of lymphocytes and no nucleated red cells

One gram of reduced iron was administered daily and injections of solarson were given Later Fow lers solution was used

During the course of the illness the erythrocytes decreased in number. The harmoglobin at first remained stationary and then increased. The color index rose but was never above: Macrocytes appeared in large numbers. The urine showed uro bitm and the cystitis persisted.

A diagnosis of anamia of a pernicious type having been made abortion was induced in the seventh month of the pregnanc. There was a very slight loss of blood with a high rise in the temperature

The interruption of the pregnancy was followed by marked improvement in the subjective symptoms and in the blood picture. Five weeks later the harmoglobin was 62 per cent and the erythrocyte count 4000 ooo Alter three and a half months the barmoglobin was 74 per cent and the color in dex 0 8

Throughout the illness there was no odema

acterus or enlargement of the spleen
According to Esch the variations in the blood
picture are so frequent and pronounced that the
diagnosis remains uncertain during life and is con

firmed only by postmortem examination The author discusses the symptoms that have been described and emphasizes the difficulty of differentiating the condition from chlorosis He assumes that in both conditions the cause is a dis turbance of internal secretion and that therefore there may be a transition from chlorosis to the per nicious form of angmia. In this and in the belief that the anamia is not a distinct clinical entity he disagrees with Esch The frequent occurrence of the anæmia in certain localities such as Zurich and Parma he ascribes to poor constitution of the inhabitants evidenced by a functional weakness of the bone marrow. Oettinger's question as to the possibility of a recurrence of the anamia in a new pregnancy he answers in the affirmative on the basis of the literature. He does not approve of sterilization but believes that interruption of pregnancy is imperative when the diagnosis is made early

Bocii (G)

Jagié N The Indications for the Interruption of Pregnancy in Diseases of the Circulatory system (Ueber Indikatonen zur Schwangerschafts unterbrechung bei Erkrankungen des Zirkulations apparates) Britz gericht! Med 1928 vui 26

In the management of ca es of cardiac defects in which pregnancy may be allowed to continue it must be borne in mind that external injuries may cause an exacerbation of the cardiac condition. I reginant women seem to be especially dissosted to recurrent endocardiats following anginas and infections. When endocardiats following anginas and infections. When endocardiats following anginas and infections. When existing the endocardiate following anginas and infections. When the endocardiate following the e

Crossen R J and Moore S Cholecystographic Studies in Pregnancy Am J Obst & Gynec 1928 X11 840

In a series of twenty two pregnant women cholecystographs was attempted by the intravenous method with the use of the sodium salt of phenol tetraiodophthalein. The technique and desage recommended by Graham Cole Copher and Moore were employed The chief purpose of the examina tions was to determine whether changes in gall bladder function occur during gestation which would explain the role of pregnancy in the production of gall bladder disease. In the cases of four women with signs of the toxemia of pregnancy the attempt was made to determine whether the estimation of the retention of the die in the blood stream combined with cholecystography is a more delicate method of demonstrating a decrease of liver function than the dye retention test alone. The possibility of diffusion of the cholecystographic die through the placenta was also considered all fifms being carefully studied for the image of the fetal gall bladder

The method of making liver functional tests with sodium phenoftetraiodophthalein is quite similar to that used with phenolicitrachlorphthalein or brom aulphthalein Function is considered normal when the retention of phenoltetraiodophthalein in the blood serum is less than 12 per cent one half hour after the injection and less than 4 per cent one hour

after the injection and when the sum of the one ball

hour and bour retentions is 16 per cent In the four cases of toxemia the test was carried out in the twelfth fourteenth to sixteenth fortieth and fortieth week of gestation respectively. Three of the twenty two women had a retention of from s to 10 per cent but showed no signs of toværmia In one case cholecystography failed on account of the enormous size of the patient. One patient showed clinical evidence of cholecystitis. If these cases are subtracted from the total number there were thirteen apparently normal cases without gall bladder sumptoms toxemia or dye retention in the blood In six cases in this group there was non visualization and in two cases only faint visual ization of the gall bladder. Therefore in eight of the thirteen cases abnormal cholecystograms were obtained and in only five of that number or 38 4 per cent of the apparently normal subjects were the cholecystograms normal Three of the women with normal cholecystograms were in the thirty sixth to fortieth weeks one was in the twentieth week and one was in the twelfth week of gestation

A possible cause of the failure of visualization of the gall bladder in the cases of normal pregnancy may have been increased intra abdominal tension or pressure on the organ or its ducts which prevented the dye from entering the vesicle or so affected the call bladder that it was rendered unable to concen trate the bile Regarding the first of these two possibilities the authors call attention to the fact that though there were five normal cases with non visualization of the gall bladder in the thirty fourth

to fortieth weeks of gestation there were also there similar cases with normal cholecistograms. This indicates that the mechanical factor of increased intra abdominal pressure if it is a factor at all is a most inconstant one

With regard to the possible loss of the bile-con centrating power of the gall bladder in the late months of pregnancy the authors state that if such a loss occurs it is overcome very rapidly as in two cases with non visualization of the organ before delivery there was normal visualization two weeks after delivery The authors expenence with chole Cystography in conditions other than pregnancy has shown that if the concentrating power of the gall bladder is lost it is not regained until after a greater

period than fourteen days The authors conclude that non visualization of the gall bladder in normal cases is due to the tech nical difficulties of making roentgenograms in the cases of pregnant nomen near term. They call at tention to the fact that in such cases the \rsvs must pass through a large volume of tissue and fluid which produces scattering with loss of definition and that the increased volume of the abdominal contents increases the distance of the gall bladder from the film Their theory is strengthened by the fact that in small subjects the gall bladder was more readily visualized than in large subjects. If this conclusion is correct it is the size of the abdomen and not the month of the gestation or any intrinsic change in the gall bladder that is responsible for non

visualization In the cases of toxemia the combination of the test of dye retention in the blood and cholecyst ography was not found to be more sensitive than the dye retention test alone The one fatal case of severe toxemia with a 50 per cent die retention in the blood and good visualization of the gall bladder indicated that the damage to liver function produced by this condition must exceed 50 per cent in order greatly to influence cholecystography

In none of the cases was a fetal gall bladder ob served Neither were traces of dye found in the blood from the umbilical cord ft seems endent therefore that the cholecy stographic dyes do not

pass through the placenta The cases with visualization of the gall bladder showed no delay in the emptying of the gall blad irr such as was noted by Mann and Higgins and no other indication of stasis Honever the emptin time of the organ was not determined by the use of

In conclusion the authors state that no e sential difference in the functional activity of the gall bladder in pregnancy was observed hypercholesteræmia which is normal in pregnancy may be a factor in the development of cholelibia is and cholecystitis it is possible also that repeated puerperal infections which are so mild as to escape observation may be responsible for the greater into dence of these conditions in women who have borne SANUEL J FOGELSO UD children

debrery or because of uterine fatigue dehvery is followed by hamorrhage

Falure to make a diagnosis. This difficulty is doc chafty to the fact that in all cases of occuput posterior position the head is somewhat extended and therefore the positions formatelle upon which the diagnosis depends to a great extent hes so far back and so high that it is not reached on vaguel extimation. The obstetrician will usually he able to pipter the posterior forntanelle if when he feel only the anterior fontanelle he follows the sagittal suture as In posteriorly as possible

saure as irr postenoriy as possible

3. An attempt to deliver the baby through an
incompletely dilated cervix the first stage of lahor
incompletely dilated cervix the first stage of lahor
incompletely dilated cervix the first stage of lahor
produced. This error is prevented by administering
produced. This error is prevented by administering
incompletely the produced of the cervix When the
head which less his posterior position will not rotate
and will not descend under the force of streng
second stage pains the use of a drug to stimulate
under controllerious such as putturns and the ap
plication of an extremely tight abdommal belt cause
diaggeous pressure on the head.

When the diagnosis of posterior position has been made and after sufficient delay in the second stage of labor no progress occurs operative interference

becomes necessary The method of attempting delivery of the head in the posterior position is to be condemned as it is because of this position that the head does not descend The force required to deliver the head while it is in the posterior position is entirely un justifiable It is the author's rule never to make traction upon a head in the posterior position and always to regard such a position as an abnormality to he corrected. The procedure of drawing the head down to a lower level of the pelvis and then totating it with forceps is also to be avoided as the traction necessary to hring the head down to the peline floor is apt to cause great damage. The abnormality of position should be corrected at the pelvic plane in which the head is found. Traction with simultaneous rotation of the head is to be cordemned because of the danger of injuring the birth canal by the twisting movement

Delege recently advocated months of the bead through repeated small and to continually re ad pasing the forceps until the heath arough months and anterior position. In the authors afterior to the months of the heath and the herth canal because of the poor application of the forceps which through part of the procedure are applied to the heat deliquedy. A true explain application should be used in all cases and the rotation performed in one maneu er rather than in a number of stages with pumerous regiptions of the forcers.

ianual rotation of the head is successful in many stanual rotation of the head is successful in many desplaced to a higher pelvic level when it is grasped by the whole hand inserted into the vagina and is

very apt to return to its posterior position before the forceps may be applied unless the scalp is caught with a volsellum forceps a very undesirable pro

In the Cleveland Maternity Hospital occupity potentior position is managed in a definite routine manner. There is no interference in the first stage of labor unless an emergency develops. Pain is practically abolished by adequate anasthesia and normal progress is permitted until full dilatation results. It is usually possible to determine within the first hour of the second stage whether the head will rotate anteriorly or not. Under no condition is interference delayed until the uterus becomes tonic ally contracted or the head becomes impacted. De lay males operative interference difficult.

When the head is above the pelvic brim or in the brim podalic version is the procedure of choice. This issually climinates the use of high forcess the only exceptions heing cases in which the uterus is so tonically contracted as to render version danger ous. When the head has passed the pelvic him to tation with forceps baying solid hilades is done. The steem in the procedure are as follows.

I Manual dilatation of the maternal soft parts
2 Cephalic application of the forceps. This is
the reverse of the usual application as the concavity
of the forceps is toward the sinciput

3 The blades of the forceps are brought in line with the long diameter of the head by depressing

the bandles before locking them
4. The forceps are locked and the handles then
raised and carried around in a sweeping circle in
such a may as to keep the blades constantly in the
same axis. The rotation is continued until the ocr
put is under the symphysis. There is absolutely no
traction on the head during the rotation. Occasion
ally at the head seems to be slightly impacted it is

loosened by a slight upward pressure
5. After the rotation and before the blades are
removed enough donnward traction is made to
fix the head in its new position.

6 The forceps are then removed and re applied as to a normally placed head

SANUEL J FOGELSON M D

Ivens F The Scope of Cæsarean Section Bril

M 7 1928 a 1100.

After revening the indications for casarean section the author describes her technique for the classical operation which in the main is the generally accepted technique. This operation was per formed in 193 consecutive cases without regard to potential or actual infection. The indications were those usually recognized. Even when the membranes have been experienced for some time induction of labor to the construction of the control of the construction of the construction of the construction of the vagina was carried out. The only precautions taken in cases with suspected infection were drainage of the abdomand cavity, and the administration of of the administration of

of cardiac origin is often positive when other signs of decompensation are absent

In general interruption of pregnancy as indicated in all cases in which disturbances of compensation do not respond in a short time to cardiac tonics. The danger is greater in women past flustry search great in in those who are younger. It should be borne in much that even when the pregnancy is well tolerated in such cases the cardiac condition may become worse later.

In mitral insufficiency interruption of the preg nancy is to be considered only when marked signs of cardiac insufficiency fail to respond in a short time to cardiac tonics and rest Hypertonia with hyper trophy of the heart due to arteriosclerosis syphilis and infectious agents may cause weakening of the heart muscle after the thirtieth year of age. The probability that this sequely will develop is greater the higher the blood pressure in the stage of compensation and the more marked the cardiac hyper trophy. In such cases a decrease in the blood pres sure is usually the first sign of the weakening of the heart Cardiac insufficiency tends to develop also in diseases of the lungs and pleura fibrous seletotic processes pulmonary emphysems and kyphosco liosis In these conditions interruption of pregnancy is indicated by signs of stasis pointing to weakness of the nght least

In hyperthyreosis and Basedon a disease the cir culatory system is always affected and interruption of pregnancy is indicated by dilatation of the heart

especially when the general rundation is poor Interruption of pregnancy is indicated also by se

vere cyanists in association with congenital defects. The author educates interruption of pregnancy unconditionally in the cases of women with cardiac defects who have a history of decompensation during a previous pregnancy and in the cases of women with severe mocardists marked observe severe keyphoscolicus and mitral selections associated with valvolate the regularization. Even when labor us well boroc irreparable disturbances of compensation may develop us the purpersium

In cases of mutal stenous the behavior of the left aunche mit the especially considered. The murmur must not be judged by its inten ity. In aortic with sufficiency with disease of the mittal or becaused valve and in percarditis with obliteration the prey annow must be interrupted. I cute measuratus with considerable distriction of the aortic peaks of the considerable distriction of the aortic peaks of the considerable distriction of the aortic peaks of the constant without further tigns of the latter. If in such cases the aortic valve is also musfficient interruption of the pregnancy is indicated defauted.

KLEIN (G)

Titus P The Influence of Blood Chemistry Stud les on the Present Treatment of Fregnancy Toxemias J Med Soc A Jessy 1928 xxv 771

It is generally believed that the toxicoses of pregnancy are the result of a deficiency of glycogen due to insufficiency of the carboh-date mike a disdemands of letal and placetal growth a dishypertrophy. The authors invest, atoms has deen onstrated also a close relationship betwere suddadrop in the blood sugar and the occurrence of no vulsions. The success of the intra-enous admistration of destrose solution in both hypermess and eci mpain as explained by the blood chemistry. The sural force symptoms of hyposycientia are about in a hypermess because the hidron signal decisions process is a unitally preceded by a beav intake of process is a unitally preceded by a beav intake of process in surfacility preceded by a beav intake of course spandly liver and failure changes reals and

The decisions occur of hyperceness and eclarism at 2. The decisions of hyperceness and eclarism as 2. The decision of hyperceness, the patient should have frequent feedings of smit amounts of flood with a high carbodydrate content and one or two hours of yest in the moring and afternoon. In the more sever forms she should be hospitalized nourishment by mouth should be suited and intraveous superious of 3 per cert det trose (soo c cm at a timp) should be given fror of three turns of should yet increasary. Chord said branch for the control of the control of

LABOR AND ITS COMPLICATIONS

Van Hoosen B. Scopolamine Amerikesia in the Second Stage of Abnormal Labor fact & Angl 1928 vo 353

Scopolamine angestbesia during labor present latigue and physical disturi ance allows these of any operative procedure necessary to effect destery does not interfere with the normal contractions of the uterus and help to prevent trauma loss of blood and asphysia of the infart

Experience in several thousand delivenes has demonstrated that scopolarmie morphine anesthera can be continued with advantage throughout the entire delivery and especially in the second stage of

The author reports three illustrative cases

CARL H. DAVIS, M.D.

Bill A H The Problem of the Vortex Occipito-

posterior Position Aco England J Med 1918
craz 2237
The difficulty in the management of the occupat

The difficulty in the management of the observaposterior position is generally due to one of the three following causes

t Too great delay in delivery When delivery is too long delayed there may be tone contraction of the uterus which interferes with the procedure of choice the delivery may be performed at a time when weakening of the f tal heart and the passage of meconium radicate that the beby cannot server and thereby to defective corpus luteum formations. Even shem the bleeding is irregular during lactation there is regular ovulation which acts as a guide to the cycle of bleeding is night of the metrorrhagua. This type of bleeding is doubtless capable of exert may an unfavorable influence on the secretion of one of the control of the c

SIECERT (G)

Report of the Committee on Survey of the Incidence of Puerperal Septicæmia in Massachusetts in 1927 New England J. Med. 1928 excit 1253

The number of cases of puerperal sepas recorded by the Siste Department of Vistal Statistics of Massachusetts to 1929 was 140. The Committee on Puerperal expected detailed histories of 91. The number of women delivered at home and the number of those delivered in a hospital were equal. There were twice as many normal deliveres so operative deliveres and also precipitate labors. Tare were 20 cases of incomplete shortion and 5 details from sepass after exasters as section.

The investigating committee concluded that the deaths from incomplete abortion and exogenous infection cannot be charged to larity of the medical attendant but they recommended that the greatest care be observed by members of the medical profession in the management of obstetincal cases

CARLH DAVIS M D

Armstrong R R and Shaw W Streptococcal Vaccines in the Treatment of Puerperal Sepsis B u M J 1928 11 1082

From their clinical and experimental observations the authors conclude that puerperal morthidity is due in the main to a single cause the streptococcus progenes. As apontaneous recovers has resulted in all but a lew of their cases they believe that in the

prevention of sepsis the use of special remedies such as vaccines is of secondary importance to conservative and aseptic midwifery — CARL H. DAVIS. M. D.

MISCELLANEOUS

Radwany S The Behavior of the Blood Platelets in Labor the Puerperium and Certain Obster trical Complications (Das Verhalten der Blut plaetichen bei der Geburt im kindbett und einigen obstetnischen komplikationen) Orvoskép is 1928

From 300 blood platelet counts in the cases of 103 women the author draws the following con

clusions
During pregnancy and just preceding delivery the
number of blood platelets is the same as in non
pregnant women. The greater the loss of blood
during labor the sooner thereafter the number of
hood platelets begins to rise and the longer it re
quires, to return to the normal. After minor losses
of blood the count is almost doubled after moderate
losses it is more than doubled and after severe
losses it is more than doubled.

The number of entitrocytes decreases after delivery in proportion to the amount of blood lost and then gradually returns to normal. It reaches normal at the same time that the number of blood platelets ceases to increase. In enses with large losses of blood and in cases of long continued pureprail bleed ing the replacement of blood corpusales and the increase in the blood platelet count continue longer. Therefore the increases in the blood platelets is a continued in the continued purepraised in the blood platelet is a formal. Before acceptance of the organ bosis there are no characteristic changes in the blood platelet count.

Next to the Formo method of counting the blood platelets the author regards the Borot Kaltstein method as the best Temesvary (G)

RESULTS IN 295 CASES IN WHICH THE CLASSICAL CLESAREAN SECTION WAS DOVE

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from 10 to 20 c cm of anti-streptococcus serum The various groups of cases and the maternal and fetal mortality are shown in the table. The maternal mortality in the 295 cases was 1 3 per cent and the fetal mortality 8 5 per cent

HARVEY B MATTHEWS M D

Cosgrove S A Casarean Section and Forceps When They Must Not Be Used J Hed Soc A

Jers y 1928 XXV 776 The author states that recent surveys of obstetri cal operative mortality especially that of cosarean section from several representative communities are appalling He discusses the mechanism of labor the forces which favor it the resistances which retard it and the methods of artificial assistance and methani cal intervention. He emphasizes the importance of rigid observance of the indications and contra indi cations for exsarean section and the use of forceps

In casarean section the conditions essential for maximum safety of the mother are (1) a good gen eral condition (a) absence of markel labor exhaus tion, (3) integrity of the amniotic sac and (4) an uninjured and uninfected birth track

In the application of forceps full dilatation and retraction of the cervix are essential. The dispropor tion between the presenting part and the pelvic inlet must not be too great. The application of forceps to a head which is still wholly above the rim of the pel vis or only slightly moulded is unjustifiable exact knowledge of the condition to be dealt with is

essential In expected dystocia careful pelvimetry and ex amination under anasthesia if necessary should be done and roentgenograms should be made in order to determine the cases in which an operative pro cedure is definitely indicated

MAGNESP LAKE MD

PUERPERIUM AND ITS COMPLICATIONS

Vertea O The Gessation of Menstruation During Lactation (Das Verhalten der Menstruati n 266 rend der Laciation) Zentralbi f Gynera 1918 i.

1666 The cessation of menstruation during the penod of lactation is regarded by certain gyneco ogist as physiological and by others as pathological As follicles begin to ripen again at the end of pregnancy the amenorrhoza which occurs in about 50 per tel ! of lactating women must be ascribed to changes in the uterus. Thorn believes that there is a progre sive atrophy of the uterus up to the fourth month after delivery and that when menstruation recurs sooner even though the woman is nursing her chief regularly and is therefore using her bodi hud production exclusively in the formation of milk the must be some pathological by peramic process in the reg on of the uterus. The author has confirmed the correctness of this theory by carefully taken histories

Vertes believes that all nomen who menstruste during the period of lactation are suffer g from so anflammatory process of the tubes and perimetrum although this condition may not be demonstrable by p.lpation According to the degree of the in flammation and congestive hyperxmia the bledge may be that of menorrhagia or metrorrhagia The latter type of bleeding occurs when the chronic con gestion leads to premature ripening of the fallides urography will indicate whether conservative surgery or nephrectomy should be done.

After an operation on the urinary tract tests of

than any other procedure the progress of recovery

John P O NEIL M D

Lauber H J The Diagnostic Significance of the Ampullary Renai i civis (Die diagnostische Be deutung des ampullaeren Nierenbeckens) Zischr f wrol Chir 1928 xxv 93

After discussing the variations in the form of the tornal strain pelvius as described by Hjyrtt Hauch Papin and others the author reports the findings in stift cases without renal discase in which pyelo taphie studies were made at the Kiel clime. He time discusses the question as to whether the so cilled angullary renal pelvis is normal or due to obstruction of the urnary outflets.

Hawth Papia and Baisy consider the ampullar, from of rain plevius to be normal but \ \text{ occleter says that as the first effect of unnary obstruction as distanced the rain plevius \(1 \) is pathological \(The uniform Sandings support \text{ \text{ occlete fisher} \) to pathological The subors fandings support \text{ \text{ occlete fisher} \) for of sevia cases studied by Lauber stone was provided to be the cause of the ampullary pelvius. In three cases, and the subordinary in the present subordinary in the present subordinary in the cases as were infection was associated with the distantion of the rain plevius. In four cases the ureter could not be filled normally with contrast material. There is \(0 \) the subordinary is the contrast translation.

log: al and three were suggestive of renal stone
let the author's opinion the urinary stagnation is
the cause and not the result of the ampullary renal
pelvis and the latter is a beginning by dronephrosis

Morison D M Routes of Absorption in Hydro

IANASEN (Z)

nephrosis Experimentation with Dyes in the Totally Obstructed Ureter 1 roc Roy Soc Med Lond 1928 Xul 210

The author reports the findings made in experiments on the kidneys of rabbats in which injections of die wanded at various periods in the course of hydronephrouss. As the amount of die introduced has nell much in the pelvic capacity of the kidney the cocurrence of positive pressure forcing the dive into abortonal channels was reduced to the minimum channels was reduced to the minimum.

Two groups of experiments were undertaken. In the first group the dye was introduced at the outset of hydronephrosis and in the second group at varying periods in the course of an established hydro nephrosis.

The results indicate that in total hydronephrosis there are two routes of all sorption from the renal pel via the lymphate and the tubular. At the outset of complete ureteral obstruction an active lymphate absorption from the walls of the renal pelvis and the uncter occurred during the first two or three days.

and was more active than the lymphatic absorption When the dye was not introduced until the third day of the bydromphrosis there was rapid tubular absorption but no lymphatic absorption. When the hydromphrosis had been present still longer the dye was drawn up the tubule system as far as the convoluted tubules. The further as at the control the general hydrometric determined that the general hydrometric determined. Long Gooss M D

After about the third day tubular absorption began

Ferrer J C Obstruction to the Venous Circulation in the kidney Caused by Distention of the Pelvis and Calyces with Special Reference to Pyelovenous Backflow J Urol 1028 xx 701

From investigations of the effect of distention of the renal pelvis on the venous circulation of the kid ney which were made on kidness freshly obtained from human cadavers the author draws the following conclusions

1 Distention of the renal pelvis and calyces to their normal capacity will produce a distinct partial obstruction to the venous outflow

a The obstruction is proportionate to the degree of the distention

3 Pyelovenous hackflow is temporary and will persist until the pressure of the outflow overpowers

4 Obstruction to the free outflow of the pelvis will produce passive renal congestion

5 Continuous distention of the renal pelvis may favor the development of hydroniphrosis

6 An understanding of this obstruction will tend to stimulate investigations with regard to ureteral drainage and dilatation especially in pregnancy CLAUDE D. PICKELL VI.D.

Billington W The Therapeutic Value of Neph ropery Brit W J 10 8 11 075

The results of nephropexy must be judged from the success of the operation in permanentily replacing the kidneys in their normal position without un favorable sequelts such as pain in the loin or hack bernan of the wound and persistent simus and in curing or ameliorating the symptoms for which the interest of the symptoms of a which is the symptoms of a which is the symptoms of a which is the symptoms of a which the symptoms of a which follows the symptoms of a wind failure have been Result lobe of the liver and enlargement of the gall hladder lyddoneyhoos if sleady present at the time of the operation continues and usually necessitates rephrectomy later Unsuccessful results from ne phropety do not improve to any extent but any benefit from the operation is permanent.

The author reviews 163 cases in which nephropexy was done One hundred and fifty of the patients were women The operation was successful in 7r cases (436 per cent) partially successful in 4r (25 per cent) and a failure in 5r (3r.4 per cent)

In conclusion the author emphasizes the importance of treating nephroptosis before the neurotic symptoms associated with the condition hecome fixed ELECT HESS MD

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Bothe A E Primary Extrarenal Hypernephroma Ann Surg 1928 lauxunt 1928

Although hypernephroma usually originates so the kidnes it may develop also in other organs Embryological and pathological observations indi cate that hypernephromata are polystructural tu

mors originating in adrenal rests

The author reports a study of a primary extrareoal hypernephroma which was made to compare the hi tological structure of such neoplasms with that of renal hypernephromata. The patient a manseventy seven years of age complained chiefly of nausea epigastric pain and postprandial abdominal dis tention and discomfort relieved by eructation of gas He stated that food and water seemed to stick on the way down

Examination revealed slight distention of the ab domen and the presence of a amouth tense and slightly movable mass about the size of a granefruit in the upper right quadrant. The mass was some what tender and moved with respiration peritoneal cavity contained free fluid. The gastro intestinal roentgenogram showed multiple points of stasis (alight obstruction) in the small intestine. The pre operative diagnosis was carcinoma of the upper abdomen of uncertain origin associated with chronic intestinal obstruction

At laparotomy the tumor was found to arise from the soft tissues in the region of the right adrenal gland There was no evidence of intestinal oh struction The liver contained metastatic tumors The patient died on the fifth day after the operation

from bronchopneumonia

In their embryonic state the anlage cells of the adrenal are so situated with respect to the liver. kidney ovary testicle endidymis and uterus especially in embryos from 12 to r6 mm. in fength that the possibility of adrenal cell inclusions to these organs can be readily understood. According to Broman adrenal rests have been found to the rete testis epididymis and paradidymis on the spermatic cord, in above and below the inguinal canal to the ovaries on the fallopian tubes in the retroperatoneal tissue below the poles of the kidneys along the spermatic and ovarian veins in the impropriate at the brim of the pelvis at the sacro ihac synchon drosis in the renal capsule and kidney substance on the walls of neighboring vessels in the regal and solar sympathetic plexuses between the transverse colon and the spleen in the right fobe of the liver and in the pancreas

Primary hypernephroma occurs most frequently in the kidney but may develop in any of the tissues in which adrenal rests have been found

In the case reported by the author the pre dominating cells while presenting a slight variation in size and shape were of the large polygonal type consisting of a large nucleus surrounded by a clear vacuolated cytoplasm Most of the nuclei stained deeply Many mutotic figures were seen. The arrangement showed great diversity being of the adrenal endothelial papillary alveolar and tuhular types

The predominating cells of hypernephromats are similar to those found in the normal adrenal corter The multistructural formations of the cells in by pernephromata are due to the plane in which the arregularly arranged capillary stroma is cut

LOUIS NEUWELT MD

Muschat M The Physiology of the Milking Mus cle of the Kidney Am J Med Se 1018 throng

Afuschat states that the papillary muscle of the kidney is an anatomical and physiological cauty with the thruse contractions When this muscle con tracts it expresses the entire fluid content of the cally the pressure wave being transmitted to the papilla which it squeezes for a short interval. The spiral architecture of the muscle indicates that the impulse begins at the base of the papilla and travels around it to the mouth of the calyz. The miking effect probably causes a period of negative pressure in the calva and also in the main ductus uncanus the central duct of the papilla which sucks the urine out of the kidney substance Jacon S Gaove M D

Bugbee H G The Rôle of kldney Function in Urological Surgery J Urol 1928 2x 541

Kidney function is one of the most important factors to be considered in the management of prological surgical cases. In a symposium on tests of the blood and urine indicative of renal function at a recent meeting of the International Urolomcal Society in Brussefs it was generally agreed that determina tions of the carbon dioxide combining power of the bfood of the creatinin urea uric acid and sugar con teats of the blood and of the elimination of phths less during four fifteen minute periods are of great vafue

The author reviews 171 cases of prostatie obstruc tion The best results were obtained when the treatment was guided by the kidney function. When the risk is shown to be great a two-stage operation is indicated

In surgery of the upper urmary tract not only the combined function of both kidneys but also the function of each kidney must be taken into con sideration These determinations in combination with the chinical observations and the findings of

the position of the patient so that the extent of the diserticulum and its orifice may be seen. After the bladder has been emptied they make a retention

In the treatment radical excision is regarded as the procedure of choice. For small diverticula the authors favor Young a intravesical suction tech more but for large diverticula they prefer packing with gauze and extravesical removal. They emphasize that at the point where the diverticulum is removed it is important to close the bladder with good muscle tissue. The walls should be inverted and if necessary a ridge should be left. If the ureter is involved it should be transplented. It should run above the mucous membrane for a distance

In 43 cases operated upon there were 3 operative deaths a mortality of 7 per cent. Of 21 patients she were followed for from six months to fourteen years 12 showed marked improvement and 9 were

completely relieved

When there is no impairment of renal function the prognosis is favorable. If malignancy is found the prognosis must be guarded. If the obstruction is removed and the bladder wound closed with good muscle tissue the possibility of recurrence is slight The radical operation has been fully justified by its tesults CLAUDE D PICERELL M D

Anther P W The Pathology of Vesicus Neo plasms J Am U 111 1928 xc1 1697

To meet the need for a classification of the com mon varieties of vesical tumors which is in accord with the general principles of tumor terminology and will answer the requirements of the clinician the author suggests the following grouping which is based on the gross as well as the microscopic fea tures of the neoplasms

1 Papills ma Benign Cell uniformity and typism
A Pedunculated (1) single (1) multiple B Sessile Papillomatosis a Papillary carcinoma

A Non-militrating (x) scattered areas of some what atypical cells (2) more diffuse and

more marked atyps in B Infiltrating (1) celts of benign type (rare) (1) cells anaplastic (a) stroma or stalk in vasion (b) submucosal base invasion (c)

muscularis and perivesical any aston 3 \on pap "ary (f'at) carcinoma (a) fibrocarcinoma (scirrhous) (b) medullary (c) adenocarci noma (d) squamous and (e) hornsfying

Aschner has reviewed the slides of every tumor subjected to biopsy or operation at the Mt Sinai liospital Ver York since 1911 and has diagnosed each in accordance with this classification. The clinical information regarding the cases and the fate results were obtained from the recent compilation of Beer and his associates The 2 objects of this study were (1) an evaluation of biopsy for diagnosis and (2) an evaluation of the nature of the patho logical condition for prognosis. The findings are summarized in a table. The following conclusions

 Reliable information as to the nature of bladder tumors is obtainable by cystoscopic biopsy in 97 per cent of cases The failures occur in cases of mul tipfe tumors and papillomatosis. In cases of malig nancy the prognosis cannot be made from bionsy alone

2 A biopsy diagnosis of malignancy in a case of tumor simulating a papilloma in its cystoscopic appearance and response to fulguration is an indication for more radical therapy (radium irradiation or surgery) unless the patient is debilitated

3 Bladder tumors may be classified in a manner barmonious with general tumor terminology and with clinical terminology They are benign or

malignant 4 Classification based on cell grading alone is not as practicable for chinical purposes. In the cases reviewed the prognosis on such a basis did not agree with the late results

The presence or absence of infiltration ap pears to he a more reliable guide to the gravity of the condition

5 The site of the malignant tumor determines its resectability and therefore materially influences the prognosis

7 If a hiopsy diagnosis of carcinoma is made and the case is considered surgical resection through the whole thickness of the bladder wall is the procedure of choice Even in cases of pedunculated tumors incomplete resection has often been followed by recurrence Stalk invasion and tumor cells in blood ressels at the base of the tumor cannot be detected ha gross inspection As only 20 of the 137 papillary carcinomata reviewed were not infiltrating it is probable that the non-infiltrating types represent

an earlier stage of the disease g Before radical surgery of the bladder is under taken a hippsy should be made since other lesions may resemble neoplasms very closely

I EDWIN LINEPATRICK M D

Ley E The Operative Treatment of Large Defects in the Urethra (Emige Worte ueber die operative Behandlung grosser Urethraldefelte) Acia chirare Scand 1928 ltm 545

In a case of scrotal and penneal gangrene which had caused a large defect in the wrethra the bladder was drained partly through a vesicular fistula and partly through a catheter which was passed through the posterior part of the urethra and brought out through the permeal wound While the large wound was clearing up and the patient was being given treatment preliminary to an operation to cover the urethraf defect an epithelial tube formed around the catheter leading out from the perineum direct sature of the two urethral ends was impossible and an operation by Ekehorn's method would have been very difficult on account of the patient's corpulence the urethral defect was covered by the newly formed epithelial tube around the catheter The result was satisfactory and the method is re commended for similar cases

Scholl A J Kidney Resection Ann Surg 1928 lerryin 1045

Partial nephrectomy was done more often before the modern improvements were made in the technique of complete nephrectomy It is associated with the danger of hamorrhage and the formation of urmary sinuses Scholl and Judd have done partial resection in localized infections of the Lidney with good end results. Scholl cites experiments performed by Tuffier Bobroff Hinman Pearlmann and Airas which show that life is possible when only a very small portion of normal kidney tissue remains

MAURICE MELTER M D Spitzer W M and Wallin I E Supernumerary

Ectopic Ureters Ann Serg 1928 lexxvnt 1053 This arti le reports a case in which an accessory body which secreted a fluid in no way resembling urine was found above each kidnes. The fluid was drained by tubes which opened at the position of the para urethral duct on each side. In the walls of the bladder and vasina the tubes followed the course

usually taken by Gaertner's eanal which has long been recognized as the persistent remains of the mesonephric or wolffian duct

The authors emphasize the difference between supernumerary ectopic ureters and ectopic ureters that are not supernumerary. They agree with Furniss Herbst I olky and Kilbane that in cases of supernumerary ectopic ureters heminephrectomy is indicated Louis Gross M D

Klein W O A Large Extravesical Stone Which liad Perforated (Extra esical gelegener dur hge hrochener grosser Ureterstein) Zi ch f urol

Chir 1928 XXIV 538 Perforation of the ureter by a atone is relatively rare. As a rule the perforation is not recognized but to some cases it is revealed later by the passage of stones through fistulæ from paranephric or periure teral abs uses. Up to rott only twelve cases were recorded in the li erature

The author reports the case of a man lorty three years of age who had three attacks of renal cohe due to stone The third attack lasted for fourteen days On abdominal and rectal palpation a hard resistant body the size of a nut was felt deep in the left side Casto copy showed a tumor like bulging of the mucosa on the left side of the bladder There was no excretion of indigocarmine from the left ureter but pus exuded from that orifice Roentgenological examination after the introduction of air into the bladder showed a large oval stone in the small pelvis and another stone about half as large at the level of the second sacral vertebra Both calcul appeared to be outside the bladder Pyelography which was possible only on the right side shoved a low kidney with a dilated pelvis and a kinked wreter

At operation through a left lumbar meision a large pyon phrosis was found. This was opened and drained A horizontal incision was then made above the symphysis and the bladder was opened. The stone was felt behind the bladder wall and was re moved transvestcally from a bed of firm through tissue The other stone could not be palpated For weeks later the hydronephrotic sac and greatly thickened ureter were removed

The author believes that the ureteral stone was impacted for some time and then ulcerated into the extravesical tissues through the justavesical portion of the ureter The exact site of the other stone which could be seen in the roentgen picture but could not be palpated was not determined

Posyer (Z)

BLADDER URETHRA AND PENIS

Lower W E and Higgins C C Diversions of the Urinary Bladder with a Report of til

Cases. J Urol 1928 EX 6th The structure of the walls of a diverticulum of the urinary bladder varies with the amount of infam mation present and the size of the diverticulum. The thickness of the walls may vary. The muscle may show distinct layers or may be replaced by fibrous tissue. In early diverticula the walls are usually thick and contain the various coats of the bladler In large diverticula the walls are thin the muscle

fibers and mucosa being atrophic or absent Diverticula may occur in any part of the bladder

but are most common near the preters

Some urologists believe that di erticula of the urmary bladder are of congenital origin and others that they are acquired According to a third group they may be either congenital or acquired

They usually occur after the age of fifty years when prostatic obstruction is most commor b may develop at any age. The average age of the patients whose cases are reviewed by the authors

was fifty six and eight tenths years

The most common complications a e infiction calcult and tumors. In 16 of the 110 cases reviewed hy the authors stones were found in ei h the bladder or the diverticulum or in both The somes may be single or multiple. The formation of stores is favored by stagnation and infection Infection b usually present. It varies in its seventy. Make nancy is not a common comp' cation. In 4 of the cases reviewed there was a carcinoma of the bladder and in I case a caremoma within the diserticulum The symptoms of diverticula of the annaly blad

der are usually those of prostat c obstruction Di verticula of moderate size may be symptomies until they become infected If 2 or more attempts are necessary to empty the bladder and if the first unit worded is comparatively clear and the rest is fool a diverticulum may be suspected. Frequency burn ing hematuria difficulty in starting the stream and pyuria are common symptoms

The diagnosis is made by cystoscopic examination or by costobraphy The size of the diverticulum za be determined by making a cystogram with an \ 155 catheter in the diverticulum. The authors make a cystogram after fluoroscopic observation charges

at any part of the orifice can be seen clearly The instrument may he rotated at different seg ments and will reveal lobules which previously re oured cystoscopic study. It is important to hear in mind that if the cautery hlade is pushed home before the heat has reached the blade it may

After the operation a large indwelling catheter (No 24 F with two eyes) is inserted and the bladder is irrigated. When the irrigation is completed some of the fluid is allowed to remain in the bladder and the catheter is corked. In the post operative care continuous drainage is necessary during the first few hours. In simple cases the catheter is removed after forty-eight hours cases with a large amount of residual urine and in those with a large obstruction the catheter is left in for a week.

Complications have been rare. Hamorrhage is decreased by the superficial burning and proper use of the catheter The operation has never been fellowed by pronounced sloughing Epididymitis has occurred in a small percentage of cases Caulk has never seen incontinence of urine nor stricture of the urethra following the operation. In his 450

cases there was no operative death As a rule the patient is confined to the hospital for only about a week JACOB S GROVE M'D

Lousley O S Surgery of the Prostate Gland with a Report of Operative Results Proc Roy Soc

Med Lond 1918 Em 35 Lousley states that with the advent of sacral parasacral and nitrous oxide oxygen anaesthesia effective drainage of the bladder preliminary to the operation the development of accurate kidney function tests the perfection of methods for esti mating retention products in the blood stream and the permeal type of operation prostatectomy has

become a relatively safe procedure

When the patient with residual urine is first seeo hy Low ey the bladder is partly refilled after cathetenzation with boric acid solution or sterile The amount replaced can be gradually reduced if no toxic symptoms follow the procedure This o-called decompression of the bladder pre vents uramia due to complete emptying of an over distended bladder Following the decompression a suprapubic costostomy under local anaesthesia is done for dramage Use is made of the suction appa tatus devised by Kenyon which having a double suprapubic tube does not suck the bladder wall into the tube. The patient is vaccinated by the organisms in his bladder

The period of preliminary drainage is continued until a succession of blood chemical and phenol sulphonephthalem tests show maximum renal efficiency and the patient feels well. In cases in which there has been considerable hæmorrhage or infection a blood transfusion is given A purgative 13 administered early on the day before the opera tion Sodium bicarbonate is given in small doses for

two days before the operation. Fluids are given up to during and immediately after the operation to prevent deby dration The important features of an operation on the

prostate are (1) proper preliminary drainage (2) the anasthesia induced (3) the route by which the

gland is removed

Perfect local anaesthesia induced with 1 per cent procain by the sacral and parasacral method is possible in 95 per cent of cases. In the remaining 5 per cent some slight re inforcement is necessary Local anasthesia does not raise the blood pressure. Consequently the hamorrhage occurring during the operation is about one tenth the amount that occurs under general anæsthesia Local anæsthesia elim mates postoperative pain for several hours and helps prevent surgical shock Dehydration is prevented as water can be given throughout the operation

The author prefers a modification of Young's perineal operation. His modified technique is de scribed in detail Postoperative drainage is estab lished by a Pezzer catheter which is introduced into the hladder through the urethra and fixed hy adhesive The vesical orifice and prostatic cavity are thoroughly packed with sufficient vaseline gauge to arrest bleeding. The floor of the pelvis is closed hy drawing the two sides of the levator ani muscle together with a catgut suture and the skin is closed with silkworm gut. This procedure allows both the

suprapulic and perineal wounds to close

The postoperative care is very important patient should rest quietly in bed and he disturbed only for the administration of fluids and determina tions of his blood pressure. The blood pressure is the most important single postoperative determina tion It tends to rise about six hours after the opera tion. In none of the series of cases reviewed did it drop below 100 mm. In cases in which the blood pressure drops unduly and does not rise gum glucose solution is administered according to the method described by the author in 1921

The packing is removed after forty eight hours if the bleeding has stopped the tube is removed from

the bladder on the third day and the patient is permitted to sit up on the fourth day

Two hundred and ninety seven adenomatous prostates were operated upon by the method described with a mortality of 5 7 per cent. The average stay in the hospital was twenty two and seventy six bundredths days

The after results are satisfactory in almost every patient who recovers from a perineal prostatectomy Provided both sphincters are not lacerated heyond repair there is never a resulting incontinence persistent fistula is never formed if the perineum is reconstructed by drawing the two parts of the levator am together Trequently sexual intercourse is possible. The infected bladder usually clears up provided there is no residual urine

In cases of carcinoma of the prostate producing residual urine the prostate is removed by the same method As soon as the patient recovers from the Partsch and Breitlaender The Roentgenological Demonstration of Stricture and Rupture of the Urethra (Die Darstellam der Hamweske bei Stricturen und Rupturen in Roent_enbild) Zischr f und Chir 1018 Xxv 103

Urethrography is a painless and safe procedure which should be used in all chronic changes and discussed the urithra. All portions of the urethra should be examined by this method particularly in cases of structure fistual false passages foreign bodies and diverticula. Roentgenological examinas tigua is more cectain than bouge exploration and

shows the position and extent of the discase process. The urettr amy be filled with bodyin or a barrism sulphate mixture. Indept processes mustoward effect if it remains in the hidder for a considerable time. Sedimentation of the heavy metal self may be reduced to the self-decided of the self-decided of the sedimentation of the heavy metal self may be reduced to the self-decided of the sedimentation of the heavy metal self may be reduced to the sedimentation of the heavy metal self-decided of the sedimental self-decided o

The half lateral position with the use of the Bucky disphragm is satisfactory for the examination. Visu advantion of the pars posterior in the segittal direction sedom shows dilatation.

RESERTE(Z)

GENITAL ORGANS

Bumpus II C Jr and Thompson G J Tuber cutosis of the Genital Tract 'urf Ginec & Obil 2028 Tive 792

From their study of tuberculosis of the genetal tract the authors draw the following conclusions

1. Dyagna 15 a symptom of urinary tuberculosis

and does not occur when the disease is confined to the genital tract

2 The presence of the bacilli of tuberculosis in the urine indicates renal involvement 3 Unless the urine is microscopically negative

a cystoscopic examination should be made in all cases of chronic tuberculous epidids mitts

4 Satisfactory late results may be expected in

more than 60 per cent of cases
5 It may be expected that epidid mectomy will
be followed by involvement of the opposite epididy

mis in 30 per cent of cases
6 Usually involvement of the opposite side will

occur within one year of the epididymectomy
7 There is a 7 per cent chance of the development
of renal tuberculosis after operation

8 Conservative treatment epididemectomy and heliotherapy offers a better prognosis than more radical measures

Hinman F The Surgical Treatment of Urogenital
Tuberculosis Surg Clin \ 4m 1928 viii 1395

Haman is of the omnion that in eases of unlateral renal tuberculosis associated with active genital lesions, nephrectomy should be practical

lesions, neparectomy snould be practical.

He states that in both renal and genital tiber culosis tuberculosis of the bladder may remain the only active le. on after operation. When this is so

advanced as to cause pain frequency and incontinence temporary nephrostomy followed by meter orectoneostomy may give relief and piplon life.

There are two choical types of gential inbreades (1) that in which the more advanced or oils less is in the epidelymis and (2) that in which the seeminal vesicles are involved with or without in volvement of the epidelymis. When gential device colosis is unassociated with a twin elemos element the indication is epidelymectomy for Type s at the radical operation for Type.

In cases with active lesions elsewhere the indications for surgery depend upon the extent of the associated involvement as compared with the in

whement of the genital or urnary organs.

After any type of operation the patient should be kept under observation for an extended pend of time and all of the known chinical methods of treating tuherculosis should be used to supplement the surgical procedure. I Synvey Ritte, ND

Caulk J R The Author's Cautery Punch for Prostatic Obstruction J Oblahoma Stal M 14 1918 221 327

Cault, states that since 1010 when he fait device his cauter; punch he has been using it in an increasing number of cases until today he employ it in al least 400 per cent of cases of profutine deviation. As he has noted that after the punch operation the decrease in the sing of the sits of the fait of the state of the sits of t

Cault, reports seventy five cautery punch over toors performed on torty three patients with kertoors performed on torty three patients with kertoolstructions some of whom were very poor in its form major surgery. Eighty six per carry of this group were either completely relaxed or were mode consofortable. Some of it most grating presults have been obstanced to cause of caremona.

Caulk always prepares the patient by gold decompres son with catheter draining. The open tion requires thorough laminarity with the rescope appearance of the urethal order. It is done entirely under visual guidance. Obstructed

In he ent a gro m of ninety four cases reviewed by the author there was a history of an attack of go orthor, in only twenty seven and a history of a previous attack of epididymitis in twenty five In some of the cases with previous epichely mitis, the attack occurred during a gonorrhoeal infection author states that when a gonorrhoral infection is superimposed upon a tuberculous infection the tuberculous infection may not be recognized at first The only suggestion of its presence is the unusually prolonged course of the supposed acute gonorrboal epulady mates

Tuberculosis of the epididymis is most common between the ages of twenty and forty the period of greatest sexual activity. In the majority of cases its onset is slow and gradual. In thirty cases reviewed

an abscess of the epididy mis was found The most important aid in the diagnosis of tuber culosus of the urinary or genital tract is a history of previous attacks of tuberculosis in other organs In seventy five of the cases reviewed either the physical or the \ ray examination showed evidence

of pulmonary tuherculosis and in fifteen cases there was evidence of extrapulmonary tuberculosis Another important aid in the diagnosis is the condition of the vas deferens When there is no evidence of involvement of the vas deferens the

diagnosis of tuberculosis of the epididy mis should be made with caution Among the findings in favor of a diagnosis of tuberculosis of the epididymis is the presence of a

single fistula or multiple fistulæ in the scrotum The value of rectal examination is negligible Of seventy eight patients who were operated upon sixteen are known to be dead fifty seven are bing and five cannot be traced. There were no immediate deaths The conditions responsible for the sixteen deaths in this group developed at varying penods after the patients left the hospital three most common causes of death were tubercu lous meningitis pulmonary tuberculosis and miliary in eight fatal cases which were not operated upon the two most frequent causes of death were miliary tuberculosis and tuberculous menunatis

Wesson M B Traumatic Orchitis Bomer J im W 151 1918 X 1 1857

GILBERT I THOMAS M D

Wesson states that traumatic orchitis is extremely rare When inflammation of the testicle occurs subout coincident prostatitis and seminal vesicu litis it is usually due to a blood borne infection such as mumps typhoid fever pneumonia or smallpox In cases of tuberculous epididymitis following trauma medicolegal boards must decide whether the injury caused a traumatic exacerbation of a pre-existing lesion or the lowered resistance of the damaged site favored the migration of organisms to that point European boards attribute the major part of the disability to the pre-existing disease and the remainder to the injury. The possibility of localized tuberculous foci following severe trauma has been proved experimentally and if an exacerba tion of an already present testicular or epididymal tuberculosis occurs immediately after an injury it may be attributed to the trauma

Delorme reported that he never saw a case of tranmatic orchitis in the Prussian army or cavalry without associated gonorrhies or a latent tubercu losis Of seventy cases of traumatic orchitis studied by the author only three could be attributed BENJAMIN F ROLLER M D to trauma

Stevens A R and Ewind J Adenocarcinoma of the Testly in the Adult Ann Surg 1928 IXXXVIII 1074

The authors report an adenocarcinoma of the tests in a man fifty one years old which differed from embryonal tumors in the time of life at which it developed its slow course the absence of metas tases after a long period in spite of a partial opera tion its gross anatomy which showed it to be a peculiar multicystic neoplasm arising well within the body of the testis and replacing the gland tissue in stead of displacing it and its structure which showed small cubical cells covering very numerous papillary projections of stroma and growing in diffuse or shehtly alveolar form

They conclude that the tumor is not to be classed with the ordinary embryonal tumors of teratom atous origin but was an adult anaplastic growth probably derived from the adult tubule cells They

have never seen a tumor of exactly this type before They state that there are two varieties of malig nant carcinomata of the testis. The great majority are embryonal carcinomata of teratoid origin which tend to appear before the fortieth year of age metas tasize freely by both the blood and the lymph stream and are very radiosensitive. Those of the other type are rare appear usually after the fortieth year of age grow slowly metastasize less rapidly are probably somewhat radiosensitive and probably have a better prognosis

Many of the slowly growing tumors of the adult type should be recognized from the clinical data and many more if not all from their gross anatomical and their histological characteristics. It still remains to be determined how numerous these tumors are and whether there are other variants of the series of adult adenocarcinomata which can be separated from the embryonal carcinomata

LOUIS CROSS M D

hetley J E and liveper W C Carcinoma of the Testicle Inn Surg 1928 lxxxviii 1079

Tumors of the testicle are relatively rare and the great majority are malignant. Benign growths are so rare that they are of little clinical importance Carcinoma of the testicle is much more frequent than sarcoma. Up to the present time more than 700 carcinomata of the testicle have been reported Arranged in decreasing order of frequency the vari ous testicular tumors are carcinomata teratoids teratomata sarcomata and benign tumors

immediate effects of the operation radium irradia tion is administered to the prostatic bed patient usually has no recurrence at the site of the prostate and lives for from two and one half to three and one half years Death results ultimately from metastasis

In 33 cases of carcinoma of the prostate operated upon the mortality was to per cent Almost to per cent of the entire series of prostates operated upon

were carcinomatous

In 40 cases of prostatic abscess operated upon by the perineal coute under recional anasthesia the average po toperative stay in the hospital was ten and eighty three hundredths days. There were 2 cases of epididy mitts and a case of senticemia. None of the patients died I EDWIY LIBARATRICK M D

Roinick, II C The Pathology of Epsdidymitis Sure Gynes & Obst 1928 xlyn 806

Rolnick has found that it is not possible to produce a chemical epididymitis. He states that acute epididymitis at its onset is an interstitual and pentubular and not an intratubular inflammation of the tail as well as of the body and head of the epididymis The extension of the infection from the tail occurs by way of the peritubular and interstitual tissues and not by way of the intratubular tissues

Enididymotomy should be limited to the tail of the epididymis without incision of the tunica vaginalis. The purpose of the incision is to relieve the ten ion and provide free drainage from the interstitial tissues. The operation should be per formed early to prevent permanent damage to the endidi mis

I SYDNEY RITTER M D

Linderen E Septic Epididymicia with Special Re eard to the Forms with a Chronic Lourse (Zur kenntnis der septischen Epididymiten mit beson derer Beruecksichtigung der chronisch verlaufenden Formen) Zischr f ural Chir 1028 xxv 127

Linderen discusses cases of chronie epididymitis which clinically suggested tuberculous and were operated upon for the latter condition but in which microscopic examination showed only a chronic non tuberculous inflammation. He does not discuss enididymitis due to instrumental treatment of the urethra prostate etc In 6 5 per cent of the cases the condition was bilateral This septic form of epididymitis occurs more frequently than was for merly supposed According to Locher we must differentiate between traumatic epididymitis ure thral epididy mitis with infection of the urmary passages and metastatic ep didymitis

Traumatic epididy mitts is attributed by sorie to a powerful force and by others to a weak force Trauma does not produce the infection but lavors it In the author's twelve cases the external force did not produce a demonstrable ext rual injury Traums evidently causes slight tissue abrasions favoring the invasion of bacteria from the posterior urethra

Urethral epididymitis is the most common form It frequently appears after gonorrhera According to Kappis the bacteria almost always in de the epididymis from the posterior urethra and the pros tate The infection probably travels by way of the was deferens in which antiperistaltic movements have been demonstrated.

Metastatic epididymitis is less common It occurs m association with septic conditions and other diseases The infection probably reaches the pros tate and seminal vesicles by way of the blood stream and travels to the epididy mis and was deferens from there In six of the author's cases the condition

followed broughttis

While thirty two of the author's cases of endely traitis could be grouped in these three classes there were fourteen in which the etiology was less that although the condition was probably of a septic náture

In cystic epididymitis there is nearly always an acute stige with pain and swelling. When the in volvement is bilateral one epididymis becomes affected after the other. The appearance of the patient suggests tuberculosis but the temperature is usually normal or only slightly increased and he quently there are chills which do not occur in taber culosis The enlargement of the epididymis is no nodular as in tuberculosis and the spermatic tord a either free or uniformly swollen and tender Ser is epididy mitts leads less frequently to abscess or fistula formation. Occasionally there is a slight symptomatic hydrocele. The urine is often cloudy and on culture yields a bacterial growth. Amo gth bacterial excitants of epididymitis are the baci us cole staphylococci and streptococci

The prognosis as regards lunction is doubtful The was deferens often becomes occluded as the sult of the fibrous change but restoration to normal

may also occur

The treatment is usually conservative consisting in the application of hot moist compresses rest in bed and elevation of the scrotum. The mercury lamp hot sitz baths and disthermy have also proved of value The injection of antiseptics into the epididymis and vas deferens is contra indicated Possibly especially in recurrence epididymectomy may be advisable but extirpation of the testicle is rarely to be considered. While some surgeons advecate hiopsy before a major operation is performed Waldbolz believes that it is better to remove an epidids mis with ordinary septic inflammation than to leave behind a tuberculous process from which the infection may become further disseminated

The article contains a large number of case JANS EN (Z) histories

Kretschmer H L Tuberculosis of the Epididymis A Critical Review Based on the Study of Ninety Four Cases Surg Ginec & Obst 1928 glen 6,2

Tuberculosis of the epididymis may be confised with syphilis but of forty five cases in which Was sermann tests were made only five had a positive

reaction and in these tive the nature of the co times was revealed by histological examination

The patient now has partial urinary control during the day and complete control at night. The author believes that ultimately he will have complete control at all times.

ELEATER HESS M. D.

MISCELLANEOUS

Redewill F II The Physiology of Micturition
J Am M Ass 1928 xc1 1960

The author first describes his portable automate cally operated apparatus the eystometer which is of value for the determination of (?) the point at shich desire to void is first noted (2) the capacity of the bladder (3) the emptying pressure (4) the lonetty of the bladder value and (3) the character sites of various conditions of the bladder (obstrue the bladder value) and (3) the character sites of various conditions of the bladder (obstrue the bladder value) and observed the bladder (obstrue) and obstrue the bladder (obstrue) and obstrue

tion diverticula tumors and neurogenic hladder) In discussing the physiology of micturation Rede will states that the tingon muscle is a separate entity of unstnated muscle arising from the longitudinal layer of the ureters Some of the muscle fibers extend down even below the verumontanum. The internal and external sphincters of the hladder are surgical entities The internal sphinicter consists of the ingon whereas the external sphincier is an ex tension of the outer and inner muscle fibers from the bladder musculature The external sphincter is com posed of striated fibers which hegin at the vesical onfice and extend back to the rectum becoming the recto urethralis muscle Anterior fibers of the leva tor and striated muscle known as the levator pros tata bands are attached to the prostatic sheath These sets of muscles are controlled by the sympa thetic and parasympathetic nerves

MAURICE MELTZER M.D.
Soloway II M. Extravasation of Urine J. Leol

1938 IX 560 CALLARSAIGHT OF UPINE F CFM
The author reviews eighty three cases of extra
188100 of urme which were treated in the period
from 1917 to 1935. Cases due to rupture of the hald
for ureter or kidney are not included. In over
period of the cases the cause was a stricture of the
bulbous or bulbomembranous urethra and meanly
very instance the stricture was accompanied by a
Primutchial absence.

An Important factor in the prognosis of the condition is the physical state of the urine at the time of the extravasation Septic urine is very destructive to the tissues causing rapid inflamma

low eddema and a cross soon followed by sloughing. The symptoms of extraoration of urine depend upon the location due to rupture the duration of the decomposition of the rupture the duration of the decomposition of the unit of the subcutaroous planes of fat and fascis and the united of the invading official and fascis and the proposition of the contravation. The proposition of the contravation of the contravation of the stravasion of the st

The author draws the following conclusions
r Extravasation of urine is an emergency con
dition demanding immediate surgical treatment

2 In the majority of eases the cause is a stricture of the urethra and as a rule this is accompanied by a periurethral abscess

3 In extravasation of urine without obstruction to the urinary outflow the anaerobic organisms play a very important rôle

4 The relationship between the point of rupture of the urethra and the fascial planes of the perincum determines the course of the extravasated urine

5 The most common site of rupture is the bulbous urethra and the next most common site the mem hranous urethra Rupture of the prostatic urethra

18 fare
7 The best results are obtained by radically
opening the focus of infiltration by wide incisions
and rectifying the stricture. Both of these procedures
should be done at the same time.

8 Extravasation of urms must be differentiated from streptococcal gangrene of the scrotum and penis and from idiopathic gangrene of the scrotum of the operation for extravasation of urms may

he done under spinal angesthesia

10 The prognosis depends upon the stage of the
condition in which operation is performed

Join F O NEIL M D

kelsted K and Schlodt E The Treatment of In
fection of the Urinary Truct 1cts med Scand
1018 1 ktv 268

The authors review the forms and results of acido six therepy recorded in the literature and report the results of the use of calcium or ammonum chloride with hexamethylentetramin or salo in seventy with cases of acidoss. A cure was obtained in twelve The reasons for the failure of the treatment in the other cases are discussed.

Rosenstein P Primary Suture In Urological Operations Aiso n Contribution on Cystopery (Ueber pinmare Naith be urologischen Operationen Zugleich ein Beitrag zur Cystopeue) Zitchr f urol Chir 1928 zur 245

Rosenstein does not agree with surgeons who view primary sature of the skin wound after opening of the hollow vicera of a skin wound after opening of the hollow vicera of a skin wound with skin tusism and prefer to place a draw fract with skin tusism and prefer to place a draw short time through the covering layers of the other short time through the covering layers of the other was closed wound at the site of the suture in the viscous He favors primary suture of the wound provided it is not contra indicated by infection sheeding a persisting wound cavity with stass of heterotrap and the state of the state of

The pelvis of the kidney has a pronounced ten dency to close after py elotomy even when it is only lightly suttred especially when the opening is on the anterior surface and the urine can therefore escape in a posterior trough directly into the ureter If it is desired to avoid drainage the suture of the

In the etiology of carcinoma of the testicle he redity is of little if any importance bequalactivity may be a factor as the tumor develops during the period of greatest sexual vigor Previous inflamma tion of the testicle from tuberculou genorrhees or syphilis is of no importance in the etiology It is still doubtful whether trauma is a contributory factor Malignancy is found most frequently in undescended testicles especially those in the inguinal region. The affected testicle is often congenitally larger or smaller than the other one Carcinoma usually starts in the rete testis where the upper part of the epididymis

toins the testicle Grossly, testicular carcinomata may be divided into solid and cystic growths. Those of the solid type are usually soft and rarely firm in coraistence The testicle with a solid carcinoma usually preserves its normal shape but is enlarged and occasionally presents a nodular surface Carcinomata of the cystic type resemble cystic teratomata but in volve also the epididymis which in teratoma of the testicle remains free

According to their histological structure care nomats of the testicle may be grouped as follows (t) seminoma spermatocytoma or embryonal car cinoma (2) adenocarcinoma with its papillars and gelatinous variety (3) squamous celled carcinoma

with and without commications and basal celled

carcinoma (4) neuro epithelioma (5) chorio-epi thehoma, and (6) carcinosarcoma Carcinoma of the testicle metastasizes very early an I extensively by way of the lymphatics and blood vessels Secondary growths occur in the lungs liver brain and kidney in and about the ureter in the bladder in the perivascular tissue from the inguinal canal up to the renal bilum and often in the inferior

vena cava and right heart. Very small testicular

tumors may produce enormous retroperstones? metastases

In the early stages of carcinoma of the testicle before metastasis occurs there are practically no subjective symptoms. Fewer than a third of the patients complain of a dull diagging pain in the testicle which at fir t increases slowly and then rapidly. The growth is smooth and moderately firm to the touch The symptoms produced by metastases depend upon the location of the metastases Carbenia loss of weight and weakness soon develop

The diagnosis can be made if the possibility of malignancy is borne in mind in the examination of abnormalities of the testicle. In doubtful cases im

mediate exploration is indicated

The prognosis is not favorable in various series of cases the incidence of cure has ranged from 5 to 50 per cent Rice states that the average survival after operation is eight and thirty five hundredths months

Early operation offers the only hope The author advises removal of the inguinal testicle as a prophy lactic measure because of the frequency of carcinoma in the inguinal region and because undescended testicles are nearly always aspermatic. Some sur

geons recommend pre operative V ray treatment of the growth and postoperative X ray treatment of the abdominal glands MAURICE MELTIES M.D.

Cecil A B The Treatment of a Case of Vale Hypospadias Surf Clin N Am 1928 v 1143 Cecil reports the ease of a child who was born without a scrotum and with the penis curved down ward and held to the purneum by a strong fibrous band. Urmation occurred through an opening in the

Dempeum At the first operation the fibrous band was divided to permit the penis to assume the normal position Vanc years later the child was circumcised and the foreskin was opened and sutured over a catheter in serted under the skin of the penis to form an antenor

At a third operation a bezagonal flap of skin was removed from the inner aspect of the toigh and introduced beneath the skin of the penile portion This flip became absorbed

At a fourth operation performed when the thild was twelve years old the foreskin pentle tube was connected by a graft to a point just arrenor to the bypospadiac opening in the perineum. The Raguer skin flap technique was used

At a fifth operation, suprapable drainser was established and the deep urethra was connected with the reconstructed penale urethra. Two months is t FINER HESE M D the child voided normally

Cecil A B The Treatment of a Case of Mala Epispadias Surg Clin A Am 1928 vill 1321

In the case reported the pubic bones were joined by a fibrous band and the thighs were intated out ward At the root of the penus there was an opening the size of the fittle finger from which unne con stantly drabbled. The peaus was retracted and turned sharply upon the lower abdom.nal nall. The prethral canal was entirely open and the foreskin was markedly redundant. The testes and scrotum were normal

At the first operation performed through a rectus incision the bladder was found to be the size of a walnut The internal vesical sphincter was denuled and sewed together and a suprapub c tube placed in the bladder At a second operation the bladder neck was com

pletely freed the suprapulue opening extended down under the fibrous band which held the pubic bones together and a small I shape I portion was removed from the antenor aspect of the neck of the blad er The vesical neck was then brought tighly over a No sa catheter and the closure continued upward toward the ventral surface of the bladder rulminating in the fixation of a suprapub c tabe After healing the patient had a fair amount of control

At a third operation a suprapubic tube was aguin miroduced and the urethra denuded and overcent The superficial tissues of the penis were then over sewn with interrupted sutures of silk The operation

was followed by ordema of the penis

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Wall J C The Development of Rone (A) The Process of Development in Bones of Different Types (B) Normal Physiological Calcification of the Matrix in Carillage and in Bone (C) The Problem of the Manner of Deposition of the Calcium Salts trik Surg 1918 von 1017

The deposition of calcium in the normal development of bone is a function of living cells. It is notified to the process following pathological lesions in which the deposits are the result of the physical precipitation of calcium in the dead or injured

1132023

The first sign of ossification in normal embryocattly as enlargement of the cartilage cells at the tods of long bones and their arrangement into columns. The next stage is the formation of groups of tells between which there is formed a substantial ranching trabectura network which later becomes the most heavily callefied area. The matrix between the cells first stams more deepix and then the beginning of cal ification can be seen in the form of small gradules which appear around the perspired the latens of the cartilage cells and gradually in cross until the matrix becomes a solid mass.

Calcification of the epiphy ses begins in the center The process is the same as that found in the short irregular bones There is first an increase in vascu lanzation and in the amount of matrix between the ceils The cells then group themselves into clusters and around the pemphery of each cell small granules are deposited The deposit takes place first around the cells nearest the blood vessels The blood vessels do not penetrate the central part of the cartilage until it begins to calcify They enter the calcified mass by erosion and the true ossification proceeds along the vessels Flat bones such as those of the skull may calcify without the presence of blood vessels in the cartilage in other respects they develop in the same way as other parts of the skeleton

Membrane bones are produced by layers of cells on famework. The calcification proceeds from the surface to the calcification proceeds from the surface to the center of the sheet. The bone forming tells crude the calcimation salls into the matrix where they precipitate giving the bone ats hardness

In all cases of calaffection of cartilage observed by the author it was noted that calcium appeared first in the form of granules the granules were embedded as he matrix immediately outside the cell capsule the calcium salts appeared before blood vessels were present in the caloried area and the calcium salts off not appear until the cartilage cells had become calarged and group !

Welb has shown that \$5 per cent of the calcum in hone is in the form of phosphate and 15 per cent in the form of carbonate Bergeims experiments showed that in rachtite ratis calcium and phosphorus are both lost in the faces whereas in normal ratis these elements are absorbed. Other experiments have shown that all tissues which utilize phosphates phone casters. Eden found large amounts of calcium in the callies of healing fractures there will be provided in the callies of healing fractures there will be considered to the calcium of the calcium form bound to protein. Injections of calcium salts into the site of a fracture bave been known to hasten bealing.

The formation of clam shells and egg shells is an other evidence of the secretive power of the hying cell in the production of calcification. The shell of birds eggs is composed almost entirely of calcium and is secreted by the shell gland a modified part of the gental tract. This secretion is an undernable cellular activity causing calcification. In expension young meet in which he injected a hine die ments on young meet in which he injected a hine die Bloteword lound the die not only in the cells before the dentities and enamel were formed but also in the calcified tooth. The influence of some of the ductless glands on bone formation notably in acromegally and cretimism is further evidence that bone growth or calcification is an activity of the

living cell rather than a physical preripitation. Calcium is secreted to form hard structures by six types of cells—three epithelial cells and three connective tissue cells. The epithelial cells and three connective tissue cells. The epithelial cells are (1) the ameloblist which builds the enamel of the teeth (2) the epithelium of the mantle of the claim and (3) the epithelium of the bird's shell gland. The connective tissue cells are (1) the odnotholist which builds denture in the teeth (2) the cartialge cell and (3) the osteoblast and bone cornuscle.

MILLIAM & CLARK MD

Ashausen C Amemic Infarcts in the Osseous System and Their Significance with Regard to the Theory of Primary Epibhyseal Necroses (Ueber anaemsche Infarkte am Knochensystem und inte Bedeutung füer die Lehre von den primaeren Epiphyseonekrosen) 1rch f klin Chir 1918 cli 192

Ashausen attempts to explain a series of hereto fore unexplained joint diseases by the development of primary expinises in necroses. The anatomico genetic explanation of such primary necroses of the expihyses has recently been supported also by the observations of others. Their etiological significance however is still disputed. Arhausen's theory that

pyelotomy wound should be carried out with par ticular care to prevent the escape of urine into the tissues After completion of the suture the author usually pours a 1 500 solution of rivinol into the wound to destroy any bacteria that may have pene trated into the tissues from the renal pelvis

Under the conditions mentioned the author pre fers primary suture also after pretetotomy provided the stone was located high enough for the field of operation to be visible if the urcter can be closed without tension and if the suture can be covered

by a flap of fat

Rosenstein is decidedly in favor of primary suture after suprapubic section even when the urine has been quite catarrhal. As the adjacent tissues must be protected against the escape of urine he usually fastens the bladder somewhat below the in tended arcision to the symphysis or the rectus muscle with three cateut sutures in such a way that by this procedure which he calls cystopers the snace of Retzius is protected against infection

He does primary suturing also in nephrecione without regard to the stump of the ureter il the wound is not soiled and as a routine procedure in

nephropexy Closure of the abdominal wound best assures the firmness of the suture of the hollow viscus. As recof. of this fact the author discusses suture of the blat der Dramage over the closed bladder is usually

removed after several days when as the result of absorption of the catgut the danger of insufficiency of the sutures is greatest. At the same time the refention catheter is usually removed so that the suture line in the bladder is placed under greater strain As a result a fistula frequently develops The author therefore avoids all drainage after supra public existotomy and on the first a disecond days after the operation irrigates the bladder with small amounts of fluid

In conclusion Rosenstein reports a number of case histories in support of his views

\$4 59EN (Z

eat. In the former the weight bearing portion of the joint becomes involved early, whereas in the tuberculous process the granulation tissue is kept out of the weight hearing portion of the joint by the contact and pressure of the opposing surfaces.

Complete restoration is rare as fibrous ankylosis often occurs or if the articular cartilages are completely destroyed bony ankylosis results. The author states that the Williems treatment is hardly pastical for civil life. For the purulent form of argument of the complete of the part of the part of the complete of the part the incision. He complete of the part the incision should be placed in the most dependent position.

The treatment of the sequelae should consist in the prevention of joint confractures and active use of the parts after subsidence of the inflammatory process Baking massage diathermy and passive motion are rarely of much benefit and forestighted on the result of the process many activate a que second infection. Osteotomy and arthroplasty are strettenely valuable procedures but should not be attempted until months or years after the inflamma they process has submissed. Part C Colonya M D

Payr E Chronic Infectious Arthritis and Its Surgical Treatment Injection frocedures Synovectomy Etc (Ueber die chronische Infekt Arthritis und ihre ebirurgische Behandlung Eins pin. umpgwerfahren Synovektomie usw.) Zischr j ibis Idd 1938 cmil 4

Five applies the term infectious arthrists to all sectional source of infectious granulation tumors and to the end situated source conditions of jointly with the exception of infectious granulation tumors and to the end results of acture inflammations. An eract differentiation of these conditions is difficult. They are related to chronic articular relumination (polyarthrists) and possibly also to the pernarthrist destruens of Umber which is considered to be an endocrine condition. Combinations of arthrives with infectious arthritist possible in all advanced cases a secondary utthins deformant develops from the infectious withing the granue of these facts the ethology is

difficult to determine Infectious arthritis may be monarticular or polyarticular It is of two types a hypertrophic (moist) type and an adhesive contracting (dry) type In the former two varieties may be differentiated one with a considerable often recurring exudate and the other with less exudate but with marked thickening of the synovial membrane. The changes affect chiefly the synovial membrane and the sub synovial connective tissue The active stage is characterized first by harmorrhages nests of bacteria and infiltration and later by the formation of necrotic and granulation areas in a pronounced focal form. The cartilage and bony joint bodies remain fairly intact for a long time but may fuse in ankylo sis secondarily In the dry type of infectious arthritis the characteristic changes leading to secondar) arthritis deformans are a narrowing of the capsular space due to cicatricial contraction

welding of the gluing surfaces by a pannus developing between the cartilagnous erosions and the formation of intra articular adhesions and periodical relations and periodical relations and periodical relations of the condition. The knee and hip are affected most of the condition. The knee and hip are affected most of the condition the knee and the condition of the condition of

To establish the diagnosis histological bacterio logical and serological examinations are essential When tuberculosis is suspected animal inoculation is necessary. In all doubtful cases in which no fluid is obtamable on puncture particularly those of the adhesive contracting type biopsy excision of the

synovial membrane should be done

The temperature of the skun is somewhat increased over the joint In most cases with a tendency toward ankylosis the blood picture shows a considerable jmphocytosis Stimulation therapy and diagnostic procedures such as squeezing out of the tonsis probing of dental fistille synecological examinations and massage of the prostate are followed by a local reaction.

The reentgenogram shows aporty atrophy cyst lormation theckening peripheral proliferations ossincation of the capsule and ligaments calcareous for and intensification of the shadows of the capsule due to the deposit of iron pigment. Inflation of the joint with ovygen may reveal evidence of changes in the capsular space.

The surgical treatment includes minor and major

neterventions Among the former are
r Extirpation of the primary focus of infection
After this has been done the author waits for a
period of from six to eight weeks before beginning
energetic local treatment of the joint

and cavity such as aspiration and shiting of the joint cavity such as aspiration and shiting of the joint cavity with an antiseptic (phenol

camphor)
3 The production of an artificial hydrops in the dry form of the condition and measures for redis

tention of the contracted capsular tube

4 The combating of rigidity (hypertonia) of the
muscles by hyperæmia massage and anæsthesia

5 Gradual and careful elimination of the con tractures by the use of apparatus extension etc. 6 Hydrotherapy care of the muscles and

mechanotherapy
7 The use of splinting apparatus

7 The use of splinting apparatus 8 Active movement in sports etc

The major surgical interventions include (r) synovectomy and possibly the formation of a capsular window (2) joint plastics (3) osteotomy (4) arthrodesis and (5) the removal of small very secretly injured portions of the extremity. The chief requisite of the entire plan of treatment is rethef of pain.

In discussing the indications for the various types of treatment Payr states that in the very large number of cases of infectious arthritis seen by him

466 INTERNATIONAL ABSTRACT OF SURGERY

the epiphyseal necroses represent anzimic infarcts is g nerally rejected

As evidence in support of his theory Azhausen presents in detail the autopsy findings in a case in which fresh anamic infarcts were discovered at various sites in the skellton (epiphyses and metaphyses) of a man of forty six years who died of cirrhosis of the liver

The macroscopic and microscopic findings in the pathological bone foci are shown in illustrations and d scribed in detail. The fresh sharply circumscribed necroses of the bone and marrow were subchoodral and at the epiphyses were more or less nedge shaped Histologically the bone within the foci was dead At the border toward the living bone the dead marrow was a homogeneous mass. This explained the light bordering strips in the macroscopic picture and the delicate thickening in the microscopic picture. In the area of thickening an extravasation of red blood cells was noted but no leucocytes were seen. The blood vessels in the area of the foci were filled to the point of bursting. Upon this hyperzemia and per hans also upon the diffused blood pigments, depended the macroscopically noticeable red areola which completely surrounded the dead areas periphers of the dead areas, signs of reparative activity were visible-connective tusue substitution of the dead marrow and beginning bony metabolism The bacteriological examination of the bone foca abowed a short non barmoly tic streptococcus

From the multiplicity and the localization of the foci in areas in which embolic infected necroses occur most frequently and from the wedge shape of the foct the author concluded that the etiological factor was an embelic or embelic thrombotic occlusion of the arteries but in the sections no evidence of occlusion of the vessels was demonstrable. As the infectious element remained ineffective (there was nothing in the histological picture to show growth of the bacterial the foci in the bone are to be charac

tenzed as typical anamic infarcts

The author reports also the case of a man forty one year of age with osteochondritts dissecuns of the thee in the diseased portion of the subchondrally situated epiphyseal area which otherwise consisted of hving bone evidently formed by metabolic activity and transformed into mucoid connective tissue mass

In addition he reports three cases of osteomyelitis which healed spontaneously infectious excitants either did not enter the focus at all or their g owth was stopped or markedly to hibited by the immune substances of the body

Numero s companions with the findings of other investigator und arguments in support of Axhausen s theory are given which cannot be included in an abstract Besides the facts proving the occurrence of anamic infarcts in epiphyseal and metaphyseal bones view are given regarding the development of other diseases of the bones which are behaved to be related to anamic infarcts and their sequela BLOCK (Z)

Beckman T and Ivarsson G So Called Chon dromatosis of Joint Capsules (Uebet sogena. a e Chondromatose der Gelenkkapsell tela ch rure Scand 1928 Lau 551

The authors report a case or chondromata in the capsules of both knee joints in a woman fifty years of age. In one knee they resected the suprapatella bursa in which most of the chondremata had de veloped and full function was restored to the joint

Pathological study of the case showed that the chandromata were exactly like the chandromata of joint capsules first described by Reichel but did not support the hypothesis that they are true tumors

The chandromatosis is to be differentiated from arthritis deformans by the well marked tendency in the former condition of the synovial membrane to form cartilage and bone and by the chincal picture

Phemister D B The Pathology and Treatment of Pyogenic Artheitis Pennsyl on a M J to 3 ERTH ST

Phemister states that the most important organ isms found in progenic arthritis are the staphylococ cus harmolytic streptococcus and gonococcus il points out that there is very little difference in the bacteriological findings in the atrophic and hiper trophic forms of arthritis In both the organism most constantly present is the streptococcus vindans

The pathological changes in acute progenic ar thritis vary according to the virulence of the cause tive organism and its mode of entrance in's the The exudate may be serous scropuralent or purulent Acute scrous arthritis is usually due to a blood stream infection. In this condition the changes primarily affect the soft parts but occasion ally there is erosion of the articular cartilese w h resulting ankylosis. As a rule this type of atthritis subsides spontaneously under treatment by rest in bed immobilization and traction All for of infec tion should be eradicated Frequently the marked total effusion calls for aspiration

The scropurulent type of arthritis may be of hematogenous origin but as it is often a direc et tension from outcomy clitis the synovia is consider ably damaged and subsequent impairme t of the joiot function may result This type is frequently a forerunner of the purulent form The tre tme t induated is similar to that of the scrous arthritis but if the fluid continues to be lound cloudy on asparation drainage of the joint should not be delayed

The parulent type of arthritis produces changes in the entire joint There may be erosion of only one side of the joint but usually both surfaces are in volved The presence of a dense area of bone show iog a greater density than that of the rest of the bone bordering on the joint and possessing an articu lar cortex which is intact is almost pathogromonic evidence of a joint seque trum Occasionally though rarely there is a primary progenic infection of the

epiphysis The articular changes seen in acute pyogenic at thritis and tuberculous arthritis are strikingly differ

for low back pain viz a shoormalities of develop ment. While these abnormalities in themselves cace no symptoms they render the region in which they occur potentially weak and particularly suscribible to strain or traums. The abnormalities cribible to strain or traums. The abnormalities and the strain or traums and abnormalities of the author include spina brinds abnormalities of the author include spina brinds abnormalities of the sum of the strain of the strain of the virtlers non-union sacradization and calcification of the shouldness however.

Cole discusses also the relation to low back pain of fractures in the region of the lower part of the back Kuemmells disease spondvoloisthesis sacro iliac strain arthritis syphilis tuberculosis and miligaancy

ADOLEH HARTUNG M D

llarris W Sacro Iliae Pain Lancet 1928 cexv

In the male locking of the sacro that joint is sufficient to prevent all but the slightest movement but in the firmal tet be now surfaces of the pelvis are smoother the muscles are weaker and the joint is crabble of a greater range of movement. Therefore the famile is more liable to sacro these strains and substations than the male

Situas of the sarce final joint are of three types (i) the sudden or stude (c) the subscatts and (s) the thoma: The sudden form results from a violent of said. The acute form is most often produced by savy liting strain in the stooping position A better than the sudden succession of the sudden particular than the sudden succession of the succession by difficult to the sudden succession of the sudden particular than the sudden succession of the sudden pain may cease siter a the lower lumbar region. The pain may cease siter a the lower lumbar region. The pain may cease siter a the lower lumbar region. The pain may cease siter a the lower lumbar region. The pain may cease siter a the lower lumbar region is the pain may cease siter a the lower lumbar region. The pain may cease siter a the lower lumbar region. The pain may cease siter a the lower lumbar region is the pain succession of the succession of t

All of the nerves in the region of the sacro iliac articulation supply the joint with branches. The nerve supply of the joint is derived from the lumbo sical cord, the first and second sacral nerves, the obturitor and second sacral nerves.

obutator and the superior gluteal nerves
Sacto liac pain must be differentiated from set
after and the pain of spinal cord disease arthritis of
the hip and sacral fibrosits. In the diagnosis it is
excessary to rule out also diabetes tuberculosis
hes growths of the rectum lumbar cord or cauda

equina and sacralization or hemisacralization of the fith lumbar vertebra. In subacute and chronic sciatica a characteristic sign is loss of the achillar real-

sign absorbed and chromic scattice a characteristic sign is loss of the Achilles jets. Indicating that the second is loss of the Achilles jets. Indicating that the second is more sign in the second is second in the second is second in the second in the second is second in the second in the second is second in the second in th

the nerve are of great be efit
Tuberculosis may attack the sacro iliac joint with
the formation of a cold abscess

In oste arthrite of the hip joint there is usually imitation of rotation and abduction of the hip with pain on movement the pelvis tending to move as a whole with the high movement. The roentgeno gram will show muchrooming of the head of the femur loss of the articular cartiage; and disappear tenur loss of the articular cartiage and disappear physics at the edges of the acctabulum. In many cases scattles as a complication.

NORMAN C BULLOCK M D

Yeoman W The Relation of Arthritis of the Sacro Iliae Joint to Sciatica Lancet 1928 ccvv 1119

The author reviews 100 cases of sciatica admitted to the Royal Bath Hospital Harrogate England In 36 per cent arthritis of the sacro iliac joints was

Yeoman states that sciatica seems to be the result of joint distention with pressure on the lumbosacral cord and spasm of the pyriforms music. Strains of the sacro liac joint may be a predisposing factor but in England are not a common single cause of the condition.

The treatment of sciatica should be along the lines of that indicated in arthritis and penarthritis of other joints. In the past few years alcohol in scitous and forcible stretching of the nerve under anasthesia have been completely abendoed in favor of hydrotherapy and other conservative measures.

RESERT V FENDRY MD

Withelm R New Contributions on the Etiologs of Malformations of the Neck and Head of the Femur (New Betterage sur Action), to Green kethals und Schenketkopiverbildungen) Arch f o Hop u Unfall Chir 1928 XxI 531

After a review of the literature the author reports five cases of malformation of the neck and head of the femur

The first case that of a fifteen year old girl with cova vara was of particular importance be cause of the minute histological examination by Schmidt

In the authors opmon it is certain that congental coas ware cannot be ascribed to a single cause since on the one hand the theory that the condition represents the first die receive of a defect of the femur is well supported by the continger indungs and on the other hand the hongical observations made in his first case support Bosses theory that the cause is a chondrodystriph. Muellers theory that the condition is similar to make the condition in a similar to make the condition in a similar to make the condition in the conditio

The author's second case was that of a twelve year old grif with an endocrine disturbance (a mild form of myacedema) and congential cora vara. The basal metaholism was 30 per cent below normal but could be brought promptly to the normal level by the administration of thy roid.

BLOCK (Z)

in the fast seven years he operated upon only nine teen joints. He emphasizes that if the patient is not very anxious for the return of function or has become so accustomed to narcotics that the desire for them has suppressed his desire to cooperate actively if the musculature shows very marked atrophy if the function of the internal viscera has been severely affected by the chronic sepsis or if the prerequisites for sufficiently long continued after treatment can not be met even surgical treatment of the joints is not apt to be successful

In conclusion I avy discusses certain technical details of treatment such as the induction of anæsthesia of the joint capsule and cavity antisepsis the replacement of the synovia the softening of cicatricial tissue and the technique of synovectomy

Rixford E. Lesions Produced by Forced Abduction of the Shoulder Surg Clin A Am 1028 vin 1200

When the limit of motion of a di arthrodial joint is reached in any direction, the ligamentous apparatus of the convex side becomes taut and resists further motion in that direction. If the force applied is severe ecouph something must give way

Most abduction injuries of the shoulder are due to a fall with the hand and arm thrown forward for protection and the arm in pronation. The greater tuberosity strikes the upper border of the glenoid As a result of this stress the cansular ligament frequently gives way at its lower portion where the tension is greatest. If the tear is slight it is classified as a sprain. If it is more severe it wiff result in dislocation of the head of the humerus

If the capsule does not give way the tension may cause either a fracture of the surgical neck of the humerus or a fracture of the neck of the scapula

In young persons a compression fracture may consist in separation at the epiphyseal line of the head of the humerus Compression may cause also a shearing off and downward displacement of the greater tuberosity a crushing fracture of the upper part of the glenoid or a buckling fracture at the surgical neck of the humerus

ROBERT | FUNSTON M D

LeFort R and Ingelrans P Mild Osteomyclitis of the Vertebrae (OstéomyChtes vertébrales à forme attenuee) Bult it mem Soc nat de ch 1028 by 1445

The authors report two cases of esteomyelities of the spine The first was that of a six year-old girl who during the course of a septicemia developed multiple foci of bone infection one of which ultimately produced a psoas abscess. The lesson causing the psous abscess was an abscess in the first lumbar vertebra which had been painless Although the X ray showed afmost complete destruction of the body of this vertebra the spine was normally flexible Aspiration withdrew a greenish pus which yielded a pure culture of staphyfococcus aureus

The second case was that of a sixteen year-oil garl with a gibbus and a fistulous tract on the left side of the spine which had been ascribed to Pott 1 disease At operation a sequestrum equal to twothirds of the hody of a vertebra was removed Recovers resulted rapidly No bacteriological examination was made KELLOCC SPEED 31 D

Jensen J P Spondylitis Produced by the Abortion Bacillus of Bang (Spondylitis durch Bangschea Abortbacillus verursacht) Hosp Ted 1918 lxtt

A farmhand seventeen years of age was sexed with pains in the back and developed an chocess in Scarpa s triangle There was a slight scoliosis but no gibbus Iormation The roentgenogram showed the third and fourth fumbar vertebre to be broken down flattened out and connected by considerable new hone formation. The third fumbar vertebra had undergone greater destruction than the fourth it was wedge shaped and somewhat twisted

These findings suggested typhoid spondulus but alf of the tests for typhoid especially the Widal test were negative. About a year before the development of the spondylitis the patient had been trested in another hospital for one and a half mooths for fever diarrhoea and stupor At that time also typhoid was suspected but the bacteriological examination was

negative

The abscess in Scarpa's triangle healed after three punctures Its contents were sten'e Aft t the patient had been in the hospital for ten months the roentgenogram of the spinal column showed dis tinct signs of heoling and there were oo longer any symptoms

As the abortus bacilius of Bang was being in vestigated at that time tests for that organism nere also made Agglutination and complement firstica nere positive. In the author's opioion it was established with considerable certainty that the infection was due to the Bang organi m patient had worked on a farm had taken part in the berding of cattle and had often drunk of uncooked White engaged in this farm work he was attacked by a febrile disease with a course and temperature which although not absolutely charac teristic, nevertheless suggested an infection with the Bang bacillus A distinct reaction to this bacillus was present even alter two years

Previously reported complications of this infec-tion which is related to Malta f ver include orchetes membranous coletes and endoca detta There is no record of associated in olvement of bone but Roger described a case of spondylitis in Visita fever which was very similar to the case reported in this article

Cole P F X Ray Examination of the Lumbo sacrat Region with Reference to Low Back Pain J Missouri State M Ass 1928 214 561

Modern roentgen ray examination has revealed a new group of conditions which may be responsible such as might be found in a simple connective tissue new growth

It is sugasted that complete absence of the thin a sheene of the lower part of the thin congenital fractic of the thin with shortening of the bone producthross of the thin without shortening of the lone and simple bends of the thin may be due to millorimation and represent different grades of the me pathological condition. There is a certain amount of evidence which suggests that in so called predictions of the thin the disturbing influence. Strasmitted by the germ plane.

NORMAN C BULLOCK M D

llughes W k Hallux Valgus J College Surg

Operations for hallux valgus are all based upon the fact that the deformity is inherent in the bone and inflammatory conditions arising therefrom While the inflammation of the bursa and the perios but croatoses in the vicinity cause pain and disconfort the head of the metatarsal bone is never calarged and its articular cartilague is seldom anvolved.

to any appreciable extent

As the obstacle to restoration is the contraction of

the sha and soft traues between the first and second datu and of the lateral metatarophilanceal high meta of the first digit the author divides these structures completely. A shun graft may be necessary if the valgus is marked. The bug too is then bandraged an answer corrected position and the patient allowed to walk as soon as the graft is adherent. All extraors are considered of many lateral season of the contract of the con

offices are chiselled off and misplaced sesamoid bones are removed before the flaps are sutured. The author believes that hallur valgus may be due to congenital shortening of the lateral metatarsophalangeal ligament rather than to the wearing

of poorly shaped shoes
NORMAN C BULLOCK M D

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Dunn A The Surgery of Muscle and Tendon In Relation to Infantile Paralysts Proc Roy Soc Med Lond 1028 xxw 243

During the acute stage of infantile paralysis wheh hist from one to rax weeks the treatment of the macks should conset solely of the maches should conset solely of the period of considerence massage electrical stimulation and other treatment should be directed only to the affected muscles. The recumbent position should be maintained until the spiral column can be kept erectly mit cular power and as long as there is any weak seege of the gluttent muscles.

The abduction splint for the shoulder the caliper injunt for the knee and simple splintage to support the foot will usually prevent deformity and over tretching of the weak muscles while moderate activity is allowed. These apparatus must be used ustil it is evident that further weakness will not

follow their removal. They should not be discarded suddenly. The indication for reduction of splintage is the shifty of the patient to hold the limb in the position which splintage insures. Splints to prevent deformity due to joint instability or overaction of stronger muscle groups should be retained unless these tendencies can be corrected surjucially.

these tendenties chi me to the cost singular particular. As a rule the orthopedist does not see the pattern until long after deformity has been stabilished Sungard attempts at tendon longition of crievion should then be under the control of the c

In the discussion of the treatment of fiction contracture of the hips emphasis is placed on gradual mechanical correction in three stages (1) correction of the lordosis by fiction of both hips while the spine and one flexed hip are immobilized in plaster of Pans (2) gradual extension of the other leg in a Thomas knee splint and (3) incorporation of the corrected limb in plaster with the spine and similar corrected with in plaster with the spine and similar seadom indicated when this deformity is the result of infantle carallysis.

Dunn discusses tendon transplantation from the

historical anatomical and physiological viewpoints Successful results depend upon observance of the following rules

1 Correction of the deformity must be complete previous to the operation

2 The transplanted muscle must run in a direct line from its origin to its insertion

3 The muscle must be of sufficient power to meet the strain to he imposed upon it When the mu-cle is weak transference of muscle power may be of advantage as an adjuvant to other procedures such as tenodesis and arthrodesis. Suc cessful results depend also upon whether the trans planted tendon can be trained to perform its new function Re education of an isolated tendon to act apart from its group is more apt to be successful in the upper extremity than in the lower extremity. In the leg there are only two muscle groups (i) the anterior tibial and (2) the posterior tibial which includes the peroneals and the tendon of Achilles No tendon transplanted from the peroneal or posterior tihial group will be effective in overcoming the loss of active dorsiflexion

Dunn discusses the treatment of deformaties of various types. He states that the only transplantation of value for quadriceps insufficiency, is transference of either the tensor flexics femous or of the sartonius to the patella. In deciding whether to choose the former or the littler. Dunn determines which is the stronger by observing whether the leg is turned out by the sartonius or in by the tensor when

In the third case a case of bilateral cora yara in an adult the histological picture was that of subchondral fracture with callus formation and foci resembling osterus fibrosa. As a whole, the picture suggested Perthes disease

In the fourth and fifth cases the condition re

sembled esteries fibrosa

In the first four eases the malformation was un doubtedly of hereditary origin as malformations of bones were found also in other members of the patient's family BACKE SKOTH (Z)

Wade R R The So Called Condenital Pseu darthrosis of the Tibla J College Surg Australasia T 181

Indiis k The Pathology of Congenital Pseu darthrosis of the Tibla J College Surg Instralasta, 1 194

Wane states that the so called pseudarthrosis of the tibia of congenital origin is not merely a fracture that has failed to unite but the result of a definite pathological condition of the bone evident in the rocntgenogram which weakened the tihus led to its fracture and prevented union of the fracture As a rule the disease affects the tibia only and at only one site the lower middle fourth of the bone but in some instances it involves both the tibis and the

Before fracture the condition is usually found in the newborn since the fracture occurs early. The leg curves forward in its lower half \ ray examina tion reveals at the site of the curve at the antenor edge of the tibia an area of rarefied bone beginning at the periosteum extending either partly or com pletely through the depth of the tibis and varying in length from a 5 to 3 7 cm The \ ray appearance is similar to that of osterus fibrosa cystica. The fibula becomes thickened and curved probably be cause of shortening of the tibia

Fracture of the tibia may o cur without fracture of the fibula but because of the mability of the fibula

to support the weight of the body a fracture of the fibula occurs sooner or later

Union following fracture is slow and incomplete No callus is thrown out and the union is soft allow ing bending for a considerable time. The roentgeno

gram reveals fibrous union with persistent porosis at the site of the fracture

In cases of frank pseudarthrosis the bone is atrophied. The atrophy is especially marked in the lover fragment. In pseudarthrosis that has existed for some time the condition of the tihia and fibula is identical

While the roentgen appearance suggests estertis fibrosa the fracture occurring in the latter cordition tends to unite and union is of a normal character The union occurring in congenital pseudarthrosis of the tibia simulates that occurring in osteogenesis imperfects but in osteogenesis imperfects solid union is not so long delayed

The author suggests that in congental p endar throsis of the tib a we have a condition of disordered osteogenetic function at the juncture of the lower and middle thirds of the tibia and perhaps also in the fibula which is responsible for the original patholomeal changes the union that yields and bends and the non union

The treatment generally adopted in the authors cases is the use of a sliding bone graft from the same side Retention of position has been attempted by the application of plaster of Paris for a short time followed by the application of a double trough tin splint. At a later stage when walking is possible a moulded sole leather boot extending to the knee is ordered

The chief points in the article are summarized as the lower fourth of the tibis 10 which at birth may be

follows There exists as a definite entity a condition in

found an area in the bone with a roentgenographic appearance similar to that found in esteris fibresa c) stica-greas of porosis crossed by a few bone trabeculæ

2 This condition causes 2 swelling of the bone and usually forward howing

3 A fracture may be present at buth or occur subsequently

4 The fracture may be followed by (a) a preudsr throsis with no tendency toward bone regeneration or (b) union which occurs not by means of callie but rather by permeation of the affected area by new hone and is soft and yielding for some years before consolidation becomes firm and the bore is able to bear weight

5 Whether a pseudarthrosis supervenes or un on occurs there is always pronounced shortening of the teg and toot

6 The outcome is usually not good Bene graft ing gives the best results

7 It appears that there is a deficiency in the power of osteogenesis at this part of the tiba the

cause of which is obscure Inclus reports his findings in a study of speciment from three cases of congenital pseudarthrous of the tibia. The essent al part of the lesion in resected por tions of the disphysis seemed to be the centrally situated connective tissue which was partly fibrous and partly fibroblastic Certain changes partly of a necrotic nature which were present in the bone encucing the c tally situated connect ve tissif were of only incidental interest. The appearance if the resected portion of bone in each of these cases suggested that there had been a fracture which had united The greater difficulty experienced in sawing through the specimen at the line of fracture than immediately above or below that line indicated that the capacity to form bone had persisted in this area In one case there was a congenital malformation of the fourth metatarsal bone and the phalanges of the fourth toe In the one case in which a bacteriolog cal examination was made the cultures proved

terrie In one case the macroscopical and microscopical appearances of the central connective tosue were MacAusland W. R. The Treatment of Congenital
Dislocation of the Hip by Open Operation
Surf Gynec & Obst. 1928 xivii 607

The suthor states that the open operation which safeds the opportunity to study the pathological changes and involves much less danger than forcible manipulative and mechanical procedures may be a disolvantage more often than is the customary practice. Examination of the pathological changes ditte reveals as hour glass construction of the cap ditte reveals as hour glass construction of the cap extended that the state of the force of the cap which we have a superior of the cap with the state of the state of the cap which we have a superior constitution filled with our of the factors and the state of the state

Operative interference is indicated in the cases of children from four to eight years of age when one or two closed manipulations have failed. In the cases of older children it is the method of choice and in those of adults it is indicated to correct deformities

and relieve arthritic symptoms

Simple replacement of the head within the socket a fix deal method of treatment as it insures a good anatomical and functional recovery. It is applicable to cases in which the acetabulum is of sufficient dipth to retain the femoral head and the shape of the head is normal or nearly normal. Marked in ternal rotation persisting after reduction may be corrected by osteotomy of the femur When simple replacement is sufficient the author applies a plaster spice from the breast line to the ankles with the hip in abduction and inward rotation and the knee flexed The spica is worn for eight weeks. At the end of that time a new one is applied with the hip in ah duction of from 15 to 20 degrees and in marked in ward rotation with the knee extended. A plaster spica is used to maintain the hip in position for from six to ten weeks depending upon the stability and the mechanical problem involved. When the plaster spica is removed the hip spine and calves are mas saged and put through passive movements daily and the patient is taught to walk properly with the feet straight ahead to favor the return of muscle balance Swimming 1 a most benefic al form of exercise

When the patient's age or the extent of the patho logical changes render simple replacement impossible reconstruction operations may produce satisfactory functional and anatomical results

Twelve cases of open reduction are reported George C. Hensel, M.D.

GEORGE C HENSFY, MI D

an attempt is made to extend the knee. He believes that transplantation of the biceps or the inner ham strings may give increased stability to the knee but does not increase the power of extension

He states that no tendon transplantation will compensate for deltoid paralysis. In this condition arthrodesis of the shoulder joint is indicated provided the patient has good control of the scapula and a useful functioning hand

Tendons may often be used as ligaments to limit joint motion. In cases of calcaneus deformity for

example a portion of the Achilles tendon may be fixed to the tibia

The degree of tension under which the tendons should be sutured and whether the attachment should be to tendon periosteum or bone are still matters of argument. The author sutures trans planted tendons under considerable tension and not necessarily to periosteum or bone

CHESTER C GUY M D

End Results of Extra Seticular klaner F C Fixation of the Tuberculous Hip in Children J im M Ass 1918 Ret 1865

Arthrodesis is done in tuberculosis of the hip in the belief that stiffness of the joint is the best possible result in that disease. The observation of Luglish and European surgeons that in many cases recovery with motion results can be explained only by the assumption that the disease is not so virulent in England and Europe as it is in America

Excision of the head and intra articular arthrodesis have lailed because there is not enough bealthy bone to form a firm union. In the past fifteen years several methods of extra acticular fixation have been suggested In general these operations are of two types the insertion of hone graits from another part of the body and the use of bone from the trochanter

and ilium

The author has operated upon seventeen patients by the Hibbs method This procedure consists in transposition and rotation of an esteotomized vertical nedge from the trochanter without removal of the muscle attachments so that it has bony con tact with its own stumps with the coughened superior surface of the femoral neck and with a trap door groose in the side of the shum. The only contra indication is the presence of fresh open sinuses

The postoperative treatment consisted in im mobilization in a plaster spica with the leg in abduction to hold the graft against the ilium. The rasts were left on for from three to nine months Weight bearing was begun usually after about six

months

In twelve of the seventeen cases firm bony union resulted and in fourteen a good functional result was obtained In two cases free pus and wide destruction prevented union In all of the sevente n cases the progress of the disease and all symptoms

The ages of the patients ranged from four to four tren years and the duration of the disease before operation from eighteen months to eleven years The patients who are the most comfortable at those with neither abduction nor adduction and with from 20 to 40 degrees of flexion

MISSIAN L CLARK, M.D.

FRACTURES AND DISLOCATIONS

Craig C A Series of Fractures of the Long Bones Treated by the Methods of R Illimitton Russell Med I tustral a 1923 n 838

Craig reviews 114 fractures of lo g bo es Leated by the method of Russell which is based on the belief that if the muscles are placed in an attitude of physiological rest their action on the fragments of the fractured bone may be disregarded. In Russell's opinion there is no evidence that a muscle in a state of rest acts as an elastic band

The author emphasizes the importance of early active motion in the treatment of fractures lie believes that restoration of the contour of the limb as of more amportance than exact reposition of the broken bone ends PAUL C COLONNI II D

Simon J Traumatic Posterior Dislocation of the Shoulder (Traumatische Schultergelenkiluret a nach hinten] Casop lik lesk 1928 len 18

In minety dislocations of the shoulder seen in the Bruena Chaic there was only one postenor dis location The latter was caused hy a fall from a hier cle The patient could not recall a hether he fell directly on the shoulder or on the outstretched hand In most cases posterior dislocation of the shoulder as the result of a fall on the outstretched hand which causes forcible inward rotation of the shoulder toint

In experiments on the cadater the autho was able to produce such a dislocation eight times by forcable inward rotation of the raised arm In four instances infraspinous luxation resulted in the subscromial dislocations the joint capsule on the posterior aspect of the joint and the teres miner muscle were torn In the infraspinous luxations the

capsule was torn anteriorly and posterior) In the case reported by the author reduction b Kocher's method was followed by complete recovery

KD DL (Z)

Fractures of Metacarpals and Magnuson P B Phalanges J im M 1 1 s 1918 zet 1339

Magnuson states that deformities following lest tures of metacarpal bones or of the phalanges are due

to the action of the interesses or the lumbrica's In the application of splints to such fractures the contour of the bone must be taken into co calera tion The dorsal surface of the metacarpal bones being almost a straight line Magruson u. ts pos tettor spints for metacarpal fractu es calcis the are of the oblique type in which case tracts a by means of a banjo splint is better. He objects to the practice of obtaining traction by suturing thre b PAUL C COLONI MD the finger nail

son of blood is most beneficial and hastens the regeneration of blood. However a successful result cannot be expected when the loss of blood has been too great or the patient has been too long in a state of suite animal.

In secral of the cases reviewed there was a restonn after the re-infusion and in a p per cent this may be regarded as the cause of death. From experiments carried out on animals to determine the cause of these complications the author concludes that belief carried and the the abdominal cavity is debided extravasted unto the abdominal cavity is determined to the carried to blood defibranted in the sun to true. The carried to blood defibranted in the sun to true carried to blood defibranted in the sun to true. The carried to be a superior of the major is the carried of the harmful reactions after re-infusion the cause of the harmful reactions after re-infusion

Blood from the portal vein may also be re injected with harm Winiwarter (Z)

Gramén k Accident Transfusion of Leukæmic Blood Acta charurg Scand 1928 km 369

The author reports a case in which seven weeks after a blood transfusion the donor was found to be suffering from acute myeloid feukemia. His death occurred two weeks later. The recipient who had been treated for a severely bleeding duodenal ulcer died two weeks after the transfusion.

No similar case has been mentioned in the liter and the control of the cases of inoperable cancer in man—do not indicate that leukæmia can be transmitted by blood transfusion.

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Middleton W S Venous Pressure tres & Anal 1928 111 360

Middleton reviews briefly the development of venous pressure studies and discusses the importance of such determinations in establishing the condition of the myocardium. By estimating the venous pressure it is possible to determine the circulatory load on the right heart and indirectly the condition

of the left heart

increase in the pressure

Using the indirect method with the pattern of recumbent and the back of the hand or forestration as level with the right sauncle the suthor has found as level with the right sauncle the suthor has found adult to range between a and 6 cm of water. In the peripheral vensither is sittle if any respiratory varietion under ordinary conditions. Cheyne Stoker respiration is accompanied by a rise in the venous pressure during aginera and a fall during hyperposition of the control of the co

Öther factors being equal lower readings are found in women than in mer. The pressure tends to rule during the day and to fall with rest in bed Elevation of the alvedar carbon dioude increases the venous pressure. The size or prominence of the peripheral vension is a citizeng on the pressure and the level of this vection is entirely independent extendited that the contraction of the propheral section is a citizen as of peripheral section. It distants no construction.

Middleton studied also the venous pressure in cardiac decompensation following venesection and during general anasthesia. He draws the following conclusions

t Venous pressure determinations reflect accurately the right heart load

2 Lenous hypertension excluding local interference with venous return a...d the unusual cases of phlehosclerosis means my ocardial failure

3 In cardiac decompensation the critical level of ocm of water (a maintained or an ascending curvey is an excellent guide to venesection a valuable method of combating failure of the right heart

4 Prelimina y studies on the course of venous pressure in general anasthesia indicate decaded changes apparently dependent upon respiratory influences physical effort and carbon dioude ten sion in the inspired air fic. N Mos. W.D.

Holman E F Acteriorenous Ancurism Surg

Holman reports two arteriovenous aneurisms in volving the femoral vessels and one intracranial lesion. He emphasizes the careful investigations necessary to determine the exact nature of an aneurism—whether it is a simple sacculated or an arteriovenous aneurism.

The characteristic features of the lesson are (i), thrill and brut continuous throughout the earlier cycle but intensited during systole (i) a transient increase in the blood pressure and a fall in the pulse rate when the fistulia is closed by digist compers and the pulse content of one year in the venous blood as also provided in the pulse of the compared with the oxygen content of blood removed from venus remotely suitards.

In cases of arteriovenous ancursm the aftery also should never be ligated proximal to be fastual as is so frequently done for the cure of simple ancursm. Such proximal ligation is contra roleral because of the danger of gangreep of the limb beyond

the f tula

Artenovenous communications should be timmated because of the associated development of cardiac distation. The operation of those is guadruple ligation of the attern and vein proximal and distal to the communication followed by excess of the firstula.

The elimination of a fixtula may precipitate at duat decompensation incident to e end tention of an already diluted heart. To prevent this excesse dilutation venesection may be nece sary in the course of the operation to withdraw their created volume of blood which has accumulated in the culatory system during the existence of the fatula

Prolonged care is necessary after the operation to prevent myocardial strain from the increase in diastolic pressure following the elimination of the fistula Jacon M Vote MD

RLOOD TRANSFUSION

Filatov A. Clinical and Experimental Contributions on the Effect of Blood Estrawasted into the Body Carllies (k) aische und experimentalle Beitragge zur Berinfussung des in die Kostpe heeble ergosseren Blutes) trek f klin Chr. 1925 eu-

The author 6.st describes the technique of reinflation. He emphasizes that the foliod should be removed from the abbonization cantil by means 4.s. for the state of the state of the state of the country of the state of the smaller hamolyard. After its transval he filter it through eight heyers of gauze. To the fatte 4.s. per cent catzate solution is added in the proportion of a 1000. The injection is anded into the visit of the ellow. The blood must be carefully proceed against containment on

Twenty six cases of re infusion are reported. The anthor behaves that in the majority of cases in the majority of cases re info

narrosis is a function of the concentration of the nar conc in nervous tissues the law of all or none holds good that is when the concentration is effective complete paralysis results

Winterstein identifies the all-or none law of nar coss with the long recognized all or none law of citation. In spite of the he states that the in tensity of narcosis varies within certain himits directly with the concentration of the causalive sgent. This is contrary to the author's findings.

Massied has some to the conclusion that the all or none law applies only to nervous structures Whiterstein explains this by stating that in non nervoesstructures there is no paralysis of conductivity. However studies on automatic nervous tissue liketity have demonstrated that Winterstein a theory is monrect. On the isolated intestine the degree of the nervous different paralysis in the properties of the nervous theory is monrect. On the isolated intestine the degree of the nervous Even here the all or none law of narrosis seemed to apply. The same law seemed to hold soot also in experiments on the respiratory cutter.

In the last part of bis article the author opposes whereiven is theory that the all or none law of narries as the allow none law of excitation in the last between set the allow none law of excitation. The allow of excitation is applied to the allow of excitation. The all or none law of the law of l

Franken II and Schwertmeyer Collapse and Nar costs The Determination of the Volume of Collapse and National Collapse and National Collapse of Anathesia and Its Significance (Kollaps und Nathone Ermitlung der zutulterenden Bitt menge bet Aether Avertin und Actyler Nathone und ihr Bedeutung) Narhose st Inner 1928 1 437

The authors carried out experiments to determine the variations occurring in the volume of circulating blood in narcosis induced by different aneithetics and their relation to conditions of collapse. For corresponding experiments on human beings they chose other and avertine to lower the blood pressure and acctylene to raise it.

In either and avertin anasthesia the fall in the blood pressure was paralleled by a decrease in the volume of the circulating blood. Therefore the conditions were those of collapse. In narcytene aims thesia the volume of the circulating blood increased with the increase in the blood pressure and the effect was that which is sought by the use of the usual therapeutic measures in collapse. The condition of the circulation brought about by either the circulation of the circulation brought about by either corrections of the circulation brought about only restored to normal by the subsequent administration of narcytene but is even carried beyond the normal

The authors do not say where the atagnant blood remains in collapse but it appears from their state ments that displacement of the blood volume into the splanching region occurred

Franken and Schuermeyer conclude that when an operation is imperative in the presence of collapse or when collapse is threatened the anasthesia should be induced with acetylene COLLEY (Z)

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Stegemann II The End Result In a Case of Embolism of the Pulmonary Astery Cared by the Trendelenburg Operation (Dauerezehnis eines durch die Trendelenburgsche Operation geheiten Falles von Embolie der Art pulmonaha) Marsichen med Behanter 1978 Exte 1265

The author reports the end result in a case of embolism of the pulmonary actory which was oper ated upon successfully by you hirschner in 1921 by the Tr. ndelenhung method. The examinations with all posable and to internal diagnoss and with the assist suble and to internal diagnoss and with the assist suble and to internal diagnoss and with the assist suble and to internal diagnoss and with the assist and the suble and the suble and the suble and the example and pupular and creater are reproduced. As no pathological indiagns could be demonstrated in either the heart or the lungs a complete and permanent cure was obtained.

STECEMANN (Z)

ANTISEPTIC SURGERY, TREATMENT OF WOUNDS AND INFECTIONS

Regenbogen J H The Relief of Stasss in the In flamed flood Vessel by Vicans of Atkali (Ucber die alkalotische Beseitigung der Stass im entzuen deten Blutgefarss) Frankfurt Zischr f Path 1928 xxxy, 180

The author's investigations regarding the relief of stasis in inflamed blood vessels by means of alkalies were repeated by Merk. Merk found that local stasis was relieved not only by injected carbonate but all o in non injected control animals by simple retention of the momber in the water. He therefore

questions the value of the alkali netar) a large series of experiments which lead to the coordinate to experiments which lead to the coordinate to the direct administration of a manner similar to the direct administration of the manner of the procedures brought about as alkalination of the indiamed area indirectly. Sakha as alkalination on capable of causing recession of the indiamentary resistion with relief of the stass. The author therefore a es in Merik se experiments further confirmation of his theory. From the results of both in estigations he concluded to the revealed faministory processes as short to be revealed.

Zoelier C J Vaccination Against Tetanus with Tetanus Anatoxin (La vaccination contre le té tanos par l'acatoxine tétanique) Arch med mil 1428 luxus 65

Even repeated injections of crum do not wholly protect against the development of tetanus as the more frequently the serum is injected the nore spully it is exercised. The author therefore attempted to produce a permanent immunity by securities and anatomic Anatomic prepared from the dissipation of the service of the service of the serviby treating the latter with formalin and best (a c cm of formalin to 1 liter of form from four to six we ks in the incubator). The anatomic particular force: It has antigene properties and is precipated and thermostable. Prophylactic treatment with anatomic protects against serveral inness the little dose of town. The precipitability serves so the titration of the anatomic

Human beings are able to tolerate the sibents neous administration of even 5 ccm of anatoms without a reaction. Immunication is begin with the abovestancous administration of ccm. Alter now abovestancous administration of ccm. Alter now teen dains 2 ccm are given. After nowber well it may be demonstrated that 1 ccm of blood will not a first the property of the continuation of the con

The author suggests that setive immunistion with snatoxin be done in the cases of all persons who are exposed to tetanus such as gardners riders and soldiers. In military surgery protective spoculation would be of great value.

In acute danger of tetanus serum prophylins must retain its place but active immunication may be begun at the same time and should protect for a year (Z)

ARESTRESIA

Mansfeld G The All or None Law of Narcoils and the Critique of Hans Winterstein (Das Menoder Notas Gesste der Narkoe und die Knik Hans Wintersteins) Arch f expor Palk in Phomackle 1028 CERT 168

In the author song study of the ristion hip between the concentration and the effect of a roctor it was discovered that for the find rest excelability of muscle and also for all other nervous functions there is notly one parcolae, effect, namely, the complete abolition of functions and that for the effect is discovered in the complete about the concentration of the threshold concentration of the discovered in the concentration of the concentratio

And depth of narcosis was determined in the retatively from the measurable variations in the reflexes after a known concentration had worked on the nervous tissues for a sufficiently long pend of time. Whereas in non nervous organs the effect of narcosis is a function of the concentration of the nar core in nervous tissues the law of all or none bolds good that is when the concentration is effective complete paralysis results

Winterstein identifies the all or none law of nar coss with the long recognized all or none law of excitation. In spite of this, he states that the in tensity of narcosis varie within certain limits directly with the concentration of the causative agent. This is contrary to the author's findings.

Massield has come to the conclusion that the all was based has come to the conclusion that the all was based has come to the conclusion that the all was based has been all the conclusion that the all was based on the conclusion that the conclusio

In the last part of his article the author opposes whiteritens theory that the all-or none law of nar coss is the same as the all-or none has of excitation in the behere that investigations in narcoss first led to the all-or none law of excitation. The all or none law of excitation The all or none law of excitation from the set of arcoss applies where the all or none law of excitation (in muscle tissee) is operative where the corresponding law of arctication and the contraction of the set of the contracts is not sufficient when the all-or none law of excitation and that the reaction of nerve cells to narcotics is very different from that of other cells. Genewary (2)

Franken II and Schuermeyer Collypse and Nar cosis The Determination of the Volume of Circulating Blood in Ether Avertin and Acetyl ene Anxesthesia and Its Significance (Kollaps und Narkose Ermittlung der zirkulierenden Blut menge bei Aether Avertin und Acetylen Varkose und ihre Bedeutung) Narkose u Anaer 1928 1 437

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PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Anderson C C. The Radiological Diagnosis of Hydatid Infection Brit J Radiol 1922 2, 428

Hydatid infection is very common in New Zeland. The parasite gams entrance through the mouth and the embryo is set free by the digestive junces in the upper part of the alimentary tract. It becross through the sail of the bowel and gams to be a large traction of the sail of the sail of the threat the langes and may the trace the threat and the lungs and may be surfaced contrast to tree the by adult cyst and the surrounding time there the by adult cyst and the surrounding time the roomegorographic demonstration of the cyst is the roomegorographic demonstration of the cyst is the roomegorographic demonstration of the cyst is the roomegorographic demonstration of the cyst patient has level in a sheep range country of his hald contact with an interpretable of the final dagnosis depends upon the evelogical test

When the affection occurs in the thoracic cavity or in the skeleton there is sufficient contrast he tween the density of the cyst and the surrounding tissue to reveal the presence of the east. When the cyst occurs in the liver the resulting irregularity of the dome of the diaphragm calls attention to its presence. When the cyst is in the abdomen itself the diagnosis is difficult. Often its presence is revealed only by displacement of the viscera Pneumo neritoneum has been advocated as a diagnostic procedure but its use in cases of hydatid cyst involves considerable risk. The roentgen sign of a cyst in the lung is a circular ovoid or elliptical shadow of homogeneous density If the condition is comple cated by sepsis its differentiation from pulmonary abscess is propossible. For its localization roentgeno grams in both the postero anterior and the lateral planes are necessary CHARLES H HEACOCK M D

Glasser, O Lorimann U V and Seltz V B The Condenser Doslineter and its Use in Measuring Radiation Over a Wide Range of Waye Lengths Am J Romigenol 1928 in 505

Many problems up present-day radiation dost metr, cannot be solved satisfactorily with the available dosage instruments. The condenser dosameter was devised to meet the need for an in trument involving modified measuring methods. It consists of two parts (1) a condenser to which an ionization chamber is attached and (2) a string electrometer of the control of the

the field of radiation to be measured. After expoure for a specified time the condenser unit a spain re turned to the electrometer and the low of special read directly on the scale. Measurement the tunned may be converted uto R units by a known formula. Practical applications are described in detail and various experiments and tests are circl. Surface and deep does were measured with the instrument over a wide range of wave lengths and the results tabulated.

In addition to the uses outlined the condense dosaneter is extremely well adapted for protection measurements since the condenser unit can be directly in position once an extended period of time during which the stray redution is to be measured. Rossi genographic exposure and noentiencoscopic turns can also be conveniently determined with this patternent.

Evans W. A and Leucutia T. The Massha and Hypermassive Radiation in the Treatment of Skin Cancer. Best J. Radial., 2928 1 396

The authors review the development of the reat gen ray treatment of cancer of the skin and divide it into four periods (1) the period of b.i. is (1) the period of fractional treatments (3) the period of combined methods and (4) the period of massive or hypermassive radiation

The massive or hypermassive dose is of sufficient strength to produce a direct destructive action has reliance is placed on any indirect effects or no the secondary tissue reactions produced by the radiation. The amount of radiation necessary to produce a massive dose is from 100 to 200 per cent of the slim unit dose (a good crythema dose in the normal sk.) A hypermassive dose is several skin units. This massive dose need not necessarily be given at one time but the fractional massive dose differs from the true fractional dose in that an erythema is produced. The true fractional method is contra indicated in cancer of the skin The authors prefer to give the massive dose at a single application. For small superficial lessons they employ the hypermasave dose but for larger lesions they use the massive dose which is safer

The first requeste of massive and hypermassive contign any therapy is a primary destrower (exporausic) effect of the roosig a rays on the caronoma cells. The second is preservation of the arm and cells surrounding the caronoma. The postulates of inodimental important earlier and the changes of preservations. They are dreatly exponsible also for our rather at a tray classification of slun cancers into the following groups (1) and superficial rodular or ulcerated leasons time it.

5 cm. in diameter (2) medium ulceronodular lesions from 5 to 10 cm in diameter (3) fungous lesions the that characteristic of which is proliferation above the skin level (4) large superficial, ulcerated fesions 10 cm or more centimeters in diameter but only x or tm. in depth (c) large deep ulceronodular lesions 10 cm or more centimeters in diameter and more

than 2 cm in depth There is no doubt that the hypermassive method represents today the best method in the treatment of cancers of the skin especially when the lesion is in its incipient stage and no other method of treat ment has been used. Most roentgenologists agree that the incidence of permanent cure is more than go per cent CHARLES H HEACOCK M D

MISCELLANEOUS

Findlay G M Ultraviolet Light and Skin Can cer Lancet 1928 ccav 1070

The frequency of skin cancer among persons en gaged in outdoor occupations and in countries and locations with much sunlight and the fact that the common sites of the lesion are areas of the body which are exposed to the light suggested to Findlay that sunlight particularly ultraviolet light might be of importance in the genesis of cancer of the skin

In experiments on mice in which the animals were exposed to a mercury vapor lamp with a spectrum said to range from 2 coo to 10 140 A u it was found posible to produce papillomata and malignant epitheliomata of the skin by exposure to the ultra violet light for a period of not less than eight months Mice which were tarred and exposed to the ultra whe hight developed cancer in a shorter time than mice treated with either the tar or the ultraviolet light alone

GERTRUDE BEARD

Physical Measures as an Adjunct to Surgery J Med Soc N Jersey 1928 xxv 671

Doran W G Physical Therapy Aids in Fracture and Orthopedic Cases J Med Soc \ Jersey 1928 XXV 675

MARTIN confines his discussion to the various forms of light and electrical currents found that the use of the static wave current and diathermy greatly shortens the period of disability in cases of sprains that open wounds heal more promptly when they are treated with some form of hight and that paralysis is benefited by the in telligent application of galvanism

He believes that the early use of electrical cur rents in the treatment of fractures has not been properly investigated by surgeons and that it will greatly reduce the after treatment necessary

He recommends physical measures both before and after surgery in many chronic abdominal conditions

DORAN discusses the treatment of acute pain in the shoulder acute foot strain and peripheral nerve injuries by electrotherapy heat light hydrotherapy rest exercise and posture. He emphasizes the necessity of distinguishing between an articular sprain and a fracture sprain as each requires a different form of treatment

An important part of the article deals with the treatment of fractures by physical therapy. The injury to the soft structures as well as injury to the bone is considered and the treatment before and after fibrous union is described. Doran states that function of the limbs is best restored by exercises under the supervision of a competent instructor In conclusion he emphasizes the importance of cooperation between the surgeon and the technician GERTRUDE BEARD

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Bowen B D Vaughan S L and Koenig E C
The Relation of Liver and Gall Bladder Disease
to Diabetes with a Report of Liver Function
Tests and Cholecystography in a Group of
Cases of Diabetes and Allmentary Giycosurla
Bull Buffalo Gen Hosp Buffalo V 1 1938 v1 4T

The results of liver function tests and a study of gall bladder function by cholecytographs which were made by the authors in cases of disherts and cases of alimentary glycourus were too inconsistent to justify definite conclusions but they appeared to be positive more frequently in the cases of dishetes than in those of alimentary glycourus. The authors suggest that there may be a relation between cholecystic, disease and positive liver function tests in diabetes. If the liver was at fault in the cases of alimentary glycourus this could not be demonstrated by the tests u rel

In the majority of the cases studied the retention of phenoltetraiodophthalein sodium was slightly higher than that established by Graham as normal Autops; statistics show but a slightly higher incidence of gall atones in diabetics than is found at routine postumotrem examinations

The evidence that cholecysutis may be a cause of diabetes does not appear to meet all the requirements necessary to establish such a relationship

JOHN H GURLOCK M D

Bennett T I and Poulton E P Raymaud's Dis ease Associated with Cancer of the Stomach im J Bled Sc 1928 cleave 654

The authors report the case of a man sixty years of age who complained of sensitiveness to cold in his hands and seemed to present the typical picture of Raymand's disease. As a child the patient had suffered from chilblains.

Treatment with faradism and later by intravenous injections of radium emanations was unsuccessful. For the relief of the pain morphine was necessary Taylor removed the right inferior cervical sympa thetic ganglion and was proceeding to perform pernatural sympathectomy on the left radial and ut a ratter when the patient died

Autopsy revealed a large carcinoma on the le ser curvature of the stomach near the assophageal open ing. The removed cervical ganglion contained carci

noma cells of gastric origin

The authors have been able to find the report of only one other case of cancer of the stomach as o casted with Raynauds disease. They believe that the cancer cells in the ganglion are the cause of the Raynaud s disease.

CARE REPORT VI

GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

Hueper W C Agranulocytosis (Schultz) and the Agranulocytic Symptom Complex tr i Int Med 2028 xln 803

Arrandio; tous usually begans suddenly during food health with a continuously he first as it irregular pulse of poor quality in all seer as it irregular pulse of poor quality in all seers so the irregular pulse of poor quality in all seers so the irregular pulse of the cases that suddenly all the poor poor cent of the cases that suddenly of the cases the condition may base a more characteristic after considerable poor the cases the condition may base a more characteristic and the cases the condition may base a more characteristic and the cases the condition may base a more characteristic and the cases the condition may base a more characteristic and the cases the condition may base a more characteristic and the case of the cases the condition may base a more characteristic and the case of the cases the case of the cases that the case of the cases the case of the cases that the case of the cases the cases the case of the cases that the cases the cases that the case of the cases that the case of the cases the case of the cases that the case of the cases the case of the cases that the case of the cases the case of the cases that the case of the cases the case of the case of the cases the cases the case of the cases the cases

In the beginning the tonsils are enlarged and reddened and show white or vellowish places Soon they become covered by a dirty coat which on re moval leaves an ulcerated surface. Slough ag m y occur and spread and fortor is present Hamorrhage is rare. The glands in the region involved are large and tender In the late stages general examination may show bronchopneumonia enlargement of the liver and spleen and anal and vaginal vicerations In about so per cent of the cases hacterological examination of the throat has revealed fuscionilloss The most important findings are tho e of the blod examination. The leucocytes decrease toward death to from 1 500 to 100 per cubic millimeter. The granulocytic cells decrease first and may disappear entirely Immature forms are not present but de generative forms may be found. The monocites may be temporarily increased. The enthrouses thrombocytes and hamoglobin and the coagulati a and bleeding times are normal or show only slight changes The Widal and Wassermann reactions are unchanged Blood cultures are positive in only about to per cent of the cases The organisms found are vanable

The necrosing process may vary from a fen spile in the mouth in deep gangerous de friction of the cosophagus and harynt. On macroscopic extension the dicrea researe to have there layers (1) a necrotic top layer (2) a necrotic layer extension of the process of t

Hamorrhages and exudate are found in the lungpleura heart and pencardium. The absence of leucocytes in these focilis remarkable. In the destitive tract ulcers are frequently present. The live may show enlargement cloudy swelling hity degeneration and multiple foct of necrosis A minor stelling of the spleen is common. The lymph nodes septically those in the region of the involved area show callargement with atrophy of the follotes and proliferation of the retucilo endothelial cells.

The disease occurs more frequently in women than in men and is most common between the thirtieth and fiftieth years of age. It is apparently not

contagious

Temporary improvement has followed repeated large transfusions and recovery has sometimes resulted from the use of a poly valent anti-streptococcus serum and stimulating doses of \times ray irradiation to the long bone.

The condition has been ascribed to endocrine disturbance. By some it is believed to be related to acute leukamia. According to the theory most generally accepted it is an infectious process.

In the diagnosis it must be differentiated from () diseases showing agranuloss and oral necrosis seds as influenza and typhoid septicerms acute incorpance leakman and alculuerms (Ethich) (2) seems the same and alculuerms (Ethich) (2) seems the same and are supported to the same and same

Aneste a nagina and monocy tie angina (Schultz) influenas and typhoid differ in their course bettindog, and pathology. Acute I europeane less training and pathology. Acute I europeane less training a training and their stream at characterized by a himmorrhangic dathesis tenudary anamia thrombopeania and lengthened acting time. Diphthenia may closely tesemble stream and the stream of the stream and the white cells and an acrease in the white cells and an acrease in the white cells and an acrease in the monocytes from 6 to 78 per cent. It is constant and stellom fatal is constanted and stellom fatal is constanted and stellom fatal is constanted and and sellom fatal is constanted and and sellom fatal is constanted.

JAMES B BROWN M D

Birkhaug K E The Etiology of Erysipelas 4nn I i Med 19 8 tt 524

Bullbaug first reviews the clinical history of erysipelas. He reports that in 90 per cent of cases of this condition he has isolated a specific type of stieptococcus hamolyticus. The organism was tlentified by agglutination agglutima absorption and animal protection tests In experiments on rah bits erysipelas invariably developed when the organism was applied to the skin fmmune erysipe his serum protected susceptible animal against the localized en psipelas and the septicemia which are ordinarily induced by intravenous injections of streptococcus erysipelatis. With the isolated toxins skin reactions similar to those of the Schick and Dick lests were elicited Antitoxic principles which neutralized the specific toxins were found in the blood serum of patients with erysipelas

An ensipelas antitorin which was made for clinical use give very good results especially when

nt was employed during the first three days of the in fection Of sixty eight succeptible persons who were treated with this initiation to increase their immunity only one had a recurrent attack of the infection WILLIAM A BRANS M.D.

Jacobson H P Coccidiosdal Granuloma Califor ma & Best Med 1928 xxix 392

Jacobson discusses the treatment of coccidioidal granuloma with colloidal copper and reports four cases hringing the total number of cases now on record up to ninety two

The author's first case was that of an acutely ill negro thirty nine years old who had several fluctual ring masses below the left clavicle and sternal region from which pus containing the cocudioides immitis was aspirated Marked improvement followed four injections of colloidal copper

In Case 2 injections of colloidal copper reduced a coccidental mass in the ankle and wrist

a cocoliolidal mass in the annea and wrist in Case 3 there were subcutaneous abscesses which were especially numerous in the supraclavicular and sternal regions. No improvement resulted from the copper treatment. Autopsy revealed a generalized coccidiodal granulomatosis

In Case 4 there were abscesses on the hacks of both hands which showed marked improvement under treatment

The manner in which the copper acta is not known However as favorable results apparently depend upon a cumulative effect the injections must be administered regularly and over a long period of time. One of the authors patients had a relapse after the treatment had been discontinued for four

fa spate of the virulence of the organism there are no recorded instances of direct transmission of cocochodal granuloma from person to person or from animal to animal I nstudes on guinea pigs made to determine the manner in which the condition is transmitted the author found that the animals did not develop the disease when they were feed food that had been exposed to infection by in fected animals of when they were themselves exposed to contact with infected animals

Jacobson believes that an intermediate host probably an insect—is responsible for the transmis son of the condition as in all of his patients the disease began with an insignificant papule or ade matous congestion on an exposed part of the body which may have been an insect bite

HARRY C SALTZSTEIN M D

EXPERIMENTAL SURGERY

Poulton E I An Experimental Study of Certain Visceral Sensations Lancet 1928 ccxv 1223

In the author's experiments a toy balloon was in troduced into the essophagus and inflated with air by means of a catheter. A T tube allowed the conaction of a manometer with a kymograph and a water reservoir to supply variations in pressure within the rubber bag. On filling the bag became fusiform and the pressure measured indicated the pressure within the occophagus

Visceral pain was found to be due to stretching with consequent deformity of the nerve endings in the walls of the wiscus. This accompanied a rise in the disable pressure or tone of the viscus. If the posture was increased so that the hag could be more readily accommodated pain sensation ceased buring systolic contraction the pressure in the bag sometimes increased but the tension on the nerve endings fell because the diameter of the viscus decreased. Pan was absent but recurred as the wave passed and the diameter of the bag again increased. This phenomenon was further established when

two rubber bass were introduced into the resonbasis one above the other and compressed in turn by each peristaltic wave. The waves were not the result of swallowing and were unnoticed by the patient an example of secondary penstalsis. In further expenments a barrum-coated bag placed in the lower ocsophagus was inflated with water to a pressure of 40 cm, and a subber bag was placed above it to record the passing of peristaltic waves. Pain was felt at once and was most severe during contractions. Dur. ing swallowing the pain became worse and there was a contraction wave lasting twenty-seven sec onds. When the rubber bag was placed below the incompressible bag pain was noticed as before but the lower hag recorded only an increase in diastolic pressure with no peristaltic waves. This was not due to compression of its tube as normal respiratory variations were noted. The author explains increased pain during peristalsis by the fact that the diastolic pressure remained constantly at 40 cm except during the middle of the wave when it was relieved for an

interval by the contraction of the muscular walls. Similar findings were made in the case of the stomach. Many clinical cases of gastine and discontinuous contractions of pairs by the presence of gastine the production of pairs by the presence of gastine pairs are production of pairs by the presence of gastine pairs are produced. Viscerial pairs is an affair off the whole viscerial wall and not an isolated part of it and peptic ulere produces pairs all effects secondarily

by causing a reflex increase in tone. The authors findings and those of other investigators seen to show that a direct penstaltic action releves viscent pain but that the pain recurs when the tension on the nerve endings becomes reestablished during penstaltic relexation. While AL PROFET M.D.

Emerson W C The Effect of Ether Anasthesia and Shock on the Calcium of the Blood J Lab & Clin Med 1918 My 195

Emerson studied the effects of ether anesthesis asphyara pulmonary hyperventilation and sheek on the serum calcium of dogs and concludes as follows. There is an increase of 18 per cent in the serum.

calcium of the blood following ether anesthesia

There is an increase of 20 per cent in the strum

calcium of the blood following asphyzia
3 There is a slight decrease in the scrim calcium
of the blood following anzesthesia with hyper

ventilation

A slight amount of asphyria during eiter
angethesia is of value as it tends to raise the serum
calcium content of the blood and thereby shorter
the coagulation time

5 Shock has no effect upon the serum calcium of the blood Jacon M Mora MD

HOSPITALS MEDICAL EDUCATION AND HISTORY Section N. T. How Social Service Supplies

MacEachern M T How Social Service Supple ments Treatment Mod Hosp 1918 Eru 89

The primary function of the social series depart ment of a hospital should be to asset the affect of the primary function of the securities care of the primary functions should be to asset the administration of the hospital to a better understanding of the sonal conditions of the patient induce the patient to continue treatment relieve the patient of physical and mental source relieve the patient of physical and mental source months better community relations and down owney the solid production of the sol

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Visceral pain was found to be due to stretching with consequent deformity of the nerve endings in the walls of the viscus. This accompanied a rise in the diastolic pressure or tone of the viscus If the posture was increased so that the hag could be more readily accommodated pain sensation ceased. Dur ing systolic contraction the pressure in the bar sometimes increased but the tension on the nerve endings fell because the diameter of the viscus de creased Pain was absent but recurred as the wave

passed and the diameter of the hag again increased This phenomenon was further established when two rubber bags were introduced into the ecsophagus one above the other and compressed in turn by each peristaltic wave. The waves were oot the result of awallowing and were unnoticed by the patient an example of accordary peristals. In further experi ments a barrum-coated bag placed in the lower exophagus was inflated with water to a pressure of 40 cm and a rubber bag was placed above it to record the passing of penstaltic waves. Pain was felt at once and was most severe during contractions. Dur ing swallowing the pain became worse and there was a contraction wave lasting twenty seven sec onds. When the rubber bag was placed below the incompressible bag pain was noticed as before but the lower hag recorded only an increase in diastolic pressure with oo peristaltic waves. This was not due to compression of its tube as normal respiratory variations were noted. The author explains increased pain during peristal is by the fact that the diastolic pressure remained constantly at 40 cm except during the mildle of the wave when it was relieved for an interval by the contraction of the muscular walls

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Emerson W C The Effect of Ether Anasthesia and Shock on the Calcium of the Blood J.

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2 There is an increase of 20 per cent in the serum calcium of the blood following asphysia 3 There is a slight decrease in the serum calcium

of the blood following anasthesia with hyper tentilation 4 A alight amount of asphyxia during ether

anasthesia is of value as it tends to rape the serum calcium content of the blood and thereby sporten the coagulation time

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HOSPITALS MEDICAL EDUCATION AND HISTORY MacEachern M T How Social Service Supple

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The primary function of the social service depart ment of a hospital should be to assist the doctor in the scientific care of the patient through med.cosocial case study Its secondary functions should be to assist the administration of the hospital to a better understanding of the social conditions of the patient induce the patient to continue treatment relieve the patient of physical and mertal worner cooperate with the public health authorities a promoting better community relations and coopers e with schools of nursing and universities in the education of the student nurse and social worker J THANK DOUGHTY M D

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EDITOR'S COMMENT

MILLERS comprehensive study of 343 cases of intestinal obstruction treated at the Charity Hospital and the Touro Infir mary at New Orleans (p 528) is another helpful contribution upon a subject of universal interest and ever increasing importance. In his clear cut presentation of the clinical picture the author emphasizes the importance of pain as a cardinal symptom he points out again the fact that constipation and distention are absent in one half of the cases and states that of the cases reviewed none presented all the classical symptoms An interesting finding in the series reviewed was that the mortality following operations performed under local anæsthesia was 30 per cent higher and the mortality following operations performed under spinal anæsthesia 20 per cent higher than that following operations under general anasthe The author does not, however indicate whether local and spinal anæsthesia were used predominantly in the cases of patients seen late in the course of the disease and those of patients who were considered poorer surgical risks

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INTERNATIONAL ABSTRACT OF SURGERY

JUNE 1929

LANDMARKS IN SURGICAL PROGRESS

IRVING S CUTTER MD ScD CHICAGO Dan \ ribuc te n U i rs ty M | 1 S book

EXTIRPATION OF THE PAROTID -GEORGE McCLELLAN

THE early years of Jefferson Medical College were enliv ened by an occasional tilt between a certain faculty mem ber of that school and a repre tentative of the older school the Medical Department of the Uni versity of Pennsylvania Shortly alter Granville Sharp Pattison assumed the professorship of anatomy at Jefferson (1832) the students of that school by means of a letter formally called his attention to the fact that the Professor of Surgery in the Uni versity of Pennsylvania Dr Wil lam Gibson in a lecture delivered

late in the year 1832 denied that the parotid gland had ever been

empated To the students and faculty of Jeffer son this was less majeste The founder of Jefferson Dr George McClellan had already reported sex eral cases of extirpation of the parotid and this sur greal trumph had been set up as one of the house hold gods of the Jefferson student body. The letter to Professor I attison was dated January. I 1833 and concludes 1

We the students of Jefferson Medical College feeling the honour of our Professor (McClellan) in toked and the credit of our Institution concerned

dl Jeff reo Meda I Coll s Ph I d hhu

Croker Methers (x(-1)1)

in the fact being fully established would feel obliged to you if you would enter into a discussion of the question Has the Parotid Cland eter been extirpated?

One may wonder whether the letter emanated spontaneously from the student body or had been inspired by others and de signed to stimulate Pattison's potemic proclivaties. At any rate lattison took the cue and the result was the lecture cited

Lattison on the death of his teacher Allan Burns of Glasgow succeeded to his master's chair in 1813 He was a popular and fascinating lecturer and was regarded by the students as the

best teacher of anatomy in Glasgow. He is repurted to have spoken with a lisp although his language is described as fluent and impressive He had edited Burns Surgical Anatomy of the Head and Neck to which he prefixed a life of that distinguished anatomist and had been more or less steeped in the doctrine enunciated by Burns who said of the parotid3

Its exterpation is quite out of the guestion On the dead subject I have attempted the extirpa tion of such tumours (of the parotid) but even there a wang by W War er aft daguerreotype by M P All Brn Obse t th S peal An tomy of th H da 1 seek see dedus Glasgow \$ 4 p. 192.

EDITOR'S COMMENT

MILLER'S comprehensive study of 343 cases of intestinal obstruction treated at the Charity Hospital and the Touro Infir mary at New Orleans (p 528) is another helpful contribution upon a subject of universal interest and ever increasing importance. In his clear cut presentation of the clinical picture the author emphasizes the importance of pain as a cardinal symptom he points out again the fact that con stipation and distention are absent in one half of the cases and states that of the cases reviewed none presented all the classical symptoms An interesting finding in the series reviewed was that the mortality following operations performed under local anxisthesia was 30 per cent higher and the mortality following operations performed under spinal anæsthesia 20 per cent higher than that following operations under general anasthe The author does not, however indicate whether local and spinal anæsthesia were used predominantly in the cases of patients seen late in the course of the disease and those of patients who were considered poorer surgical risks

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in this month's issue of the Abstract

In all three of McClellan's cases as reported the patients recovered each showing however,

a facial paralysis

No sooner had Pattison s discourse been pub ished than there appeared in the Transyliania Medical Journal (1832) a communication from Fredenck E Beckton of Murfreesborough Ten nessee calling Professor Pattison's attention to the fact that the parotid gland had been extirpat ed in January of February of 1823-three years pnor to McClellan's first operation-by John Beale Davidge at the time Professor of Anatomy in the College of Medicine of Maryland in Balti more This case was reported in the Baltimore Ph losophical Journal and Review! The opera tion from which the patient fully recovered was performed in the presence of two Baltimore physicians Dr Solomon Birckhead (1761-1836) and Dr Thomas Wright (? -1856) and two of the operator s pupils To the communication of Beckton Pattison replied that he was unaware of the operation performed by Davidge and prom sing due credit to that operator in his forthcoming work on surgery

As far as can be determined Pattison's lecture cites the major number of published parotid operations. He does not include that of John Warrn (1753-1825) described by his son John Colins Warren (1778-1856) who says in his

Surgical Observations on Tumours 2

The surrhous state of the parotid being incurable by medies a surgical operation is the only resource an operation requiring some degree of skill cookes and knowledge of anatomy

The first anomatogy we anatomy.

The first anomatogy we are supported by my late father in the star load, and predicted by my late father in the star load, and produced as performed by my late father in the star load, and anomatogy late and star load, and anomatogy late and star load, and anomatogy late and pandial and of a conceal form. It was removed whout the store of the face and pandial store of the face and pandial store of the face partially pands for some years. This paralysis radually duminated and I believe had quite disappared belone the death of the patiently had part load for some years after the operation from some cause not connected with the disease not operation.

Agnews gives the date of Warren's operation as 1798. He further states that this operation proneered the way for those of later operators

Apparently no report of John Warren's operation was published until the work of John Collins Warren above mentioned hence the operation could not have served as Agnew indicates Agnew further states that McClellan of Green castle, Franklin County Pennsylvania removed the parotid in 1805 that White of Hudson New York, performed the same operation in 1808 and that Sweat of Maine removed the parotid three times between 1811 and 1841. Sweat's cases were not reported until 1851 when his article appeared in the Acu York Journal of Victione 4 His first case was operated in 1851 the second in 1854 and the last in 1841. All resulted in recoveries including several cases mentioned but not de-

tailed From the foregoing one may vizualize the seri ous contentions among surgeons on a surgical point that would today be settled by experi mental evidence Ten extirpations of the parotid were performed and of these the case of John Warren appears to hold American priority in per formance only Many of the operations were not published until a generation or more later when as guides to surgical procedures their descriptions would have become useless George McClellan bowever not only performed the operation successfully many times but pub lished his results promptly and through his surgical lectures widely disseminated knowledge of the operation. His eleven cases with ten re coveries clearly established surgical removal of the parotid as feasible and practical and to him for repeated successful operations of like char acter history must yield acclaim

George McClellan was born at Woodstock Connecticut on December 23 1706 In 1812 he entered the sophomore class at Yale College, graduating with honors in 1815 In 1817 he attended lectures at the University of Pennsyl vanua later as has been related entering the office of Dr John Syng Dorsey as a private pupil He was known as a brilliant student un usually keen for the time on physiological and pathological studies Between 1820 and 18 6 he taught private classes in anatomy and surgery In 1826 he founded Jefferson Medical College a move that rendered him anything but popular with the profession of I hiladelphia as it was assumed that Philadelphia at the time could not support two schools of medicine. In 1838 the professorships of Jefferson were all vacated by action of the Board of Trustees and in the re organization Dr McClellan's name was not

V L VII N w York, 85 Cases f Extirp to of Parotid Glands Moses Sw t, N.D. f North Parso 5 ld Maine.

VILVE STATE STATE AND STATE ST

510

have never succeeded in clearing away fully the diseased substance

John Bell had said t

The cutting out completely of the parotid gland is a thing quite impossible since the greatest of all the arteries viz the temporal and the manifary lie absolutely imbedded in the gland

John Bell later revised his original doctrine in his treatise on surgery,2 stating that he had often erturpated the diseased parotid and his brother Sir Charles Bell says that he had assisted John in the extirpation of the gland Burns contended however from the case reports of John Bell that he had extirpated only the lower lobe of the

William Gibsons the offending lecturer was born in Baltimore in 1788 attended Princeton and medical lectures at the University of Penn sylvania. In 1807 he journeyed to Europe and became a student of John Bell in Edinburgh receiving his M D degree in 1809 Later he was a private pupil in the family of Sir Charles Bell in London He returned to America in 1810 and began the practice of medicine in Baltimore, as suming the Chair of Surgery in the University of Maryland in 1812 Upon the death of John Syng Domey in 1818 and the transfer of Philip Syng Physick to the Chair of Anatomy Dr Gibson was appointed in 1810 to the Chair of Surgery in the University of Pennsylvania While in Baltimore he was closely associated in the Maryland faculty with Dr John Beale Davide (1768-1820) who later (1821) published an account of an operation in which he extirpated the parotid gland. This operation had probably escaped Gibson's notice but should have been known to Pattison who for several years was a teacher in Baltimore having accepted in 1820 the chair of Surgery at the University of Mary land vacated by Gibson Pattison however does not mention Davidge's case in his address to the students of lefferson When Pattison assumed the Chair of Anatomy at Jefferson he became per force closely associated with Dr George Mc Clellan and learned of the operations on the parotid performed by the latter Although con trary to the teachings of his master Burns McClellan's surgical achievements were fully accepted by Pattison and in his address he proved an able champion of McClellan's operative skill

There are numerous indications that Gibson had but a poor opinion of McClellan's surgical ability McClellan had not studied in Europe and he had been a friend and pupil, a hero worshipper of the late John Syng Dorsey who ere his untimely death had been going ahead in surgical Philadel phia quite too rapidly to suit certain members of the Pennsylvania faculty

Prior to the delivery of his address Pattison had evidently searched the literature with con siderable care. After indulging in sarcastic com ments on an alleged quotation from the offending lecture of Professor Gibson he cites numerous instances of parotid removal among others Heister in 1733 Stebold 1781 Abetrethy and Goodland 1815 Carmichael 1818 Beclard 1824 Gensoul 1824 and 1826 and Listranc 1826 He gives considerable space to the first case reported by Dr George McClellan which was performed in 1825 4 He says

The first case in which Dr George McCledan operated was one which would be e deterred a man of less energy of mind and professional eminence from attempting the operation. The subject of it, Dr Graham a gentleman at present highly respe ted in his profession in the city of New York was at the time the operation was executed a medical student in Philadelphia. The tumour was large and its antenor face was marked by a custrix left from a former operation in which from the difficulties which met the surgeon in his attempt to extract it he was induced to desist My friends boldness -a boldness resting on his knowledge of Su gical Anatomy as not to be daunted by the failure of a previous operation. He was confident that the operation might have been and still co id be successfully executed. He assured the patient that his confidence as to its pract cability was so

strong that he wa himself prepared to undertake He did perform the operation and thus established the justness of his opinion and saved the life There is of a valuable Member of the Profession comfort and a consolation in the recollection and assurance of this fact Gentlemen which pentralices the poison of all calumny and misrepresentation Dr Graham is still alive and in good health and having since the operation visited Europe and been examined by Sir A tley Cooper and the late Mr bernethy those distinguished surgeons have un hesitatingly declared that no doubt can east \$5 to the whole gland having been removed But their declaration to this effect was unnecessary I shall only ask any unprejudiced person to peruse m) friend a description of the appearance presented by the wound ammediately after the operation and then ask their own mind if a single doubt as to the whole gland having been extirpated in this case con remain

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American Mudgel Fe sew and fo smal Ph lad hibs \$16 tol 1.

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Dufourmental and Darcissac An Attempt to Treat Inferior Retrognathism (Essai de traite ment du retrognathi me inferieur) Bull et mem Soc d chiri reient de Par 1028 vy 750

Many forms of retraction of the lower jaw can be corrected by orthodontic treatment but few at tempts at surgical correction have been made when orthodontic procedures were not applicable

Temporomandibular ankylosis in infancy may cause the most marked forms of retrognathism with thoph, of the bone and retrusion of the chin In 1914 the authors described two operations for widen mg the arch of the lower jaw (1) median osteotomy with the introduction of a bone graft and (2) staircase osteotomy followed by separation of the two halves without the use of a bone graft

In another operation performed at that time on the cadaver cunciform resection through the full thickness of the jaw was done in both the cuspid and hauspid regions and the incisive fragment allowed to drop hack It was believed however that the muliation resulting was too great and the viability of the lragment too questionable to warrant the ap

plication of the operation to the living In one case the authors resected the protruding supenor maxilla at the expense of the anterior teeth and replaced the teeth with an artificial denture To increase the correction an operation was done on the joints the external lateral ligament being cut and piece of the eighth costal cartilage being inserted behin I the condyle The uncut external pters goods traded to hold the jaw forward Dislocation will not occur after this procedure According to Ferabeau and Sebileau the joint surface of the glenoid is about five times greater than that of the condyle la the author's case improvement in function was of more importance than improvement in contour Vastication which was scarcely possible before the operation was quite normal following the interven the ray showed the condyle to he well forward The cartilage was not clearly distinguished but seemed to be continuous with the posterior part of the condy le JAMES B BROWN M D

EYE

Duke Elder W. S. and Duke Elder P. M. A. His iological Study on the Action of Short Waved Light upon the Eye with a Note on Inclusion Bodies. I rel. J. Ophib. 1928. 2011.

The clinical and histological appearances of the abiotic reaction to light as seen in the cornea con

junctiva iris lens and retina are the same in kind al though varying in degree The most interesting and characteristic changes are the oxyphil degeneration affecting the nuclear chromatin which may go on to the formation of acidophil granules or of granular or homogeneous nuclear inclusions Originally intra nuclear these may be extruded into the cytoplasm with disintegration of the nuclei a process which may culminate in death and disintegration of the cell The reaction is characterized by intense vascu lar engorgement where that is possible and is fol lowed by rapid regeneration and resolution in which the absence of karyokinetic activity is notable

The general abiotic reaction is based on photo chemical denaturation affecting the proteins of the

cells Two separate actions are demonstrated in the lens

the first affecting the capsular and subcapsular epi thelium and the second affecting the lens substance The authors conclude that in common with other regions of the energy spectrum ultraviolet radia tions are a factor in the etiology of cataract

The subcapsular wall has an appearance similar to that of the corneal epithelium Definite abiotic changes in the retina affecting mainly the ganghon cells and inner nuclear laver consist essentially of a chromatolysis and a tendency to stain readily with acid dies. The authors therefore conclude that they are a pathological intensification of physiologic cal processes of vision rather than a direct abiotic response

in analogy between the nuclear appearances of ab iotically traumatized tissue and the inclusion bodies occurring in the lesions caused by herpetic and other viruses and possibly also in trachoma tends to sup port the opinion that these appearances are degener ative in nature and non specific in origin

LESUE L. McCov M D.

EAR

Drury D W Syndrome Complex Menière New England J Med 1929 CC 173

The author reports in detail 3 cases of the Memere syndrome of endocrine origin and I case not of endocrine origin In the former there was thyroid insufficiency and all of the symptoms disappeared on the administration of thy rold extract. In the case which was not of endocrine origin improvement re sulted under general care

The author believes that in cases without symp toms of disfunction the cause lies in a general six temic disturbance In 500 cases of endocrine origin included He promptly set about the organization of an entirely new faculty obtaining a charter for the Medical Department of Pennsylvania College at Gettysburg In this new school lec

tures were commenced in Philadelphia in Novem ber 1830 with nearly 100 students in attendance His Principles of Surgery 1 unfinished at the time of his death was completed by his son? and IG & M CI fl Pr iple IS gry Philad liph Res

contains records of many novel and original surgical procedures Another son General George B McClellan gained distinction in the early part of the Civil War and later became largely identified with rail

road engineering and management Death suddenly claimed George McClellan on

May 8 1847 D I H B M CI H4 8 4 824 a half years) is still too short as the majority of school children six or seven years of age have not been under the continuous influence of nodine

According to Swiss statistics the incidence of pulpable gotter in the newborn is lower when the molters receive induced salt (r mgm of potassium while to r kgm of sodium chloride) during preg many. Few injurious effects from induced salt have been observed in Switzerland although prophylaxis sobligatory in six cantons.

A comparison of the statistics for 1923 and 1927 for Viennese school children reveals a distinct de crease in juvenile goiter. The decrease has been particularly marked in the severe strums the incidence of which has dropped from 16 to 016 per cent As the consumption of iodized salt in Vienna amounts to only 47 per cent of the total consump tion of table salt only half of the children in Vienna have been under the influence of rodine during the last three and a half years Reports from other provinces are similar The number of operations for gotter performed in Vienna has also shown a marked decrease the total number in 1926 being only or per cent of the total number performed in ERRLICH (Z)

Eldh S M A Contribution to the Study of the Basal Metabolism in Golter at Puberty Acta med Scand 1928 lxix 285

Not much attention has been paid to the hasal metabolism in gotter at puberty and the clinical picture of such gotter is not clearly defined. Not infrequently the diagnosis of exophthalmic gotter is made evan incase of diffuse (colloid) gotter with more or less prominent but often rapidly passing symptoms seggesting hyperthyreosis.

The parenty matous form of gotter increases in frequency at the time of pulperty. In association with it there are generalized cardiovascular disturblesses due to increased glandular function leading to Kropfhers. or Basedon's disease. Even in cases of marked gotter as imptoms due to loss of function of

the gland which has become enlarged through de

Wegeln males a doubtion between duffuse and modular genters. The diffuse gotter may be either a Basedon gotter with diffuse gotter may be either a Basedon gotter with diffuse gotter may be defined a state which cannot not be defined gotter which cannot make the diffuse colloidal gotter which governs in adolescente and often disappears spontaneously between the ages of teenty and thirty verse.

Holmgira in 1909 was the first to show that the shadone of gooder and tach cardin in adolescent piles is usually conceiled that the increase in height a cases of gooter and to the did not corring in adolescence which were studied in hinter incremental lescence which were studied in hinter incremental lescence which were studied in hinter as a manage of supplied accepted 5 cm. whereast cases in shich the 5 mptoms developed after adolescence the proport loss were normal.

According to Holmgren's description girls with hiperthy recoss at puberty are usually tall lively and

nervous and suffer from goiter tachycardia and tremor As a rule they have a fair complexion shin ing eyes abundant hair and an intelligence above the average They menstruate and mature early

the average Inc.) menstruate and mature early In a description of gotter at pubrictly Huttnel sad that the size of the thyroid gland steadly increase notified and age, the uncrease being particularly mathematical public production of the product and the product of the product condisappeal changes but as a robe or enlargement soon disappears is caving the neck. a little thick There are no pains inflammatory reactions advent tious vascular sounds or nervous phonomena. The gland is soft and elastic The hypertrophy is too slight to be called gotter.

Sometimes however there is a true parenchy matous gotter. This may diminish in size and yet cause persistent symptoms. There is no definite relation ship between the size of the gotter and hyperthy.

reosta

More or less promounced Basedow a disease is char
acterized by prominence of the eyes a large thiroid
with well marked veins nervous and psychical fea
tures cardiovascular a symptoms and frequently

emaciation Girls with

Girls with hypofunction of the thyroid bave puffy features cold and cyanotic extremities and a dull expression. They are slow in their movements indo lent, and not very tall.

In examinations of school children in Finland kaartinen found gotter in 18 6 per cent. The gotters reached their greatest size and frequency at the age

of thirteen years

Earlier investigations of the basal metabolism in cases of gotter at puberty were carried out in only a few cases and by different methods the results being therefore difficult to evaluate In four cases of diffuse gotter in grift at puberty Il Doubler found the metabolic rate to be normal. In none of these normal that the property of the metabolic rate of the commal in one of them the histological picture was that of Base dow soster.

Möller reported six cases of goiter disgnosed as the Basedow or forme frusts: type and five diagnosed as simple goster. Only two of the Basedow or forme frusts: type had an increased metabolic rate. In none of the cases were there any ocular symptoms and in two there was no tach cardia or increase in perspiration. The symptoms were therefore very much like those not infrequently occurring in girls at puberty and soon disappearing. Gardiner Hill Brett and Forrest Smith find the

colloidal goiter to be the usual form at puberty

One cause of the conflicting data is the difference of opinion as to how the individual case should be classified with reference to the character of the gotter and other clinical features. Another is the variety of apparatus used and the difference in the methods employed in the calculation of the basal metabolic rate.

The author studied nineteen cases of goiter at puberty and the laboratory records of twenty-one others Krogh's method was used and in the which he studied the symptoms were always found to be due to hypofunction rather than hyperfunction Gronge R McAutiff M D

NOSE AND SINUSES

Hansel F k Malignant Tumors of the Naso pharynx Arch Ololaryngol 1929 ix 12

Malignant tumors of the nasopharvax produce such a great variety of symptoms that they should be of interest to the surgon internst neurologist coulted and otdera regiones. What they are invariable located in the fossion of Rosemweller, they queckly invade adjacent structures so that fully so that folly one cent of the symptoms are of extramasal origin. Surprise symptoms are variable depending upon the structures invaded. All of the cranial perses are affected but the sixth here is involved most fremewith.

The diagnoss is often difficult because of the small size of the primary growth and the absence of naso pharynges! a supploma but the condition should be suspected in every crise of unexplained priso or institution of the cannil nerves and in cases of enlarged

cervical glands
The tumors are so highly malignant that palliative treatment with radium or the \ ray offers only a

grave prognosis

The author has seen thelve cases and cites four others in which the clinical picture was dominated by extranasal symptoms. Groade R. McNuter, M.D.

Reaves R G A Comparative Study of Chronic Sinusitia with End Results Following Intra nasal Operations Arch Oldaring 1 1020 18 23

The author reports a study of cases of chromatics with the divides into three groups. (3) the chronic hyperpristic type and (4) those with polypoid degeneration of the mucos The studies included the chef complaint the history and the findings of inspection transillumination. Nay extination and laborators tests. The classification cannot be exact as there may be a combination of conditions but when pus is present in great quantity a diagnoss of the supportative type of sunsists is made. In hyperplastic sususits headache is frequent and often of the warming type components to make the proposition of the component of the surrounding of the component of the component of the surrounding anomial bronchitis and asthing and setting anomial bronchitis and asthing and setting anomial bronchitis and asthing.

lish ventilation and drunage. The work is done intranasally under local anasthesia. The author be gins by opening the antitum. He next opens the posterior ethinoids with a Sluder Kindi followed with the use of suitable punches and then the applicant II the frontal openings are too small. they are entired with rasps.

The postoperative treatment lasts from seven to ten days and consists in painting the operative field with mercurochrome and irradisting it with quarts ultraviolet tals About 90 per cent of the cases clear up if ventila tion as established and proper after treatment is given George R Mc trust M D

MOUTH

Cade S Radium Therapy of Cancer of the Buccal Cavity Lancet 1929 ccxvi 8

I rimary cancer of the tongue can be made to disappear by means of radium in a large proportion of cases. The treatment depends upon the selective action of the gamma rays upon the newly developed cells. The more rapidly the tumor grows the more sensitive it is to the gamma rays.

In cancer of the buccal cavity one of the following three methods of irradiation are used depending upon the anatomical site of the lesion

1 Interstitial irradiation by the use of radium needles around the tumor. This is most suitable for small and easily accessible tumors. 2 The cavity method in which the requisite

amount of radium is carried by a vulcante denture lined with lead. This method is used for cancer of the palate usuals and cheek. The denture may be nom continuously or intermittently. The surface ambiestion of Columbia paste.

3 The auriace application of Columbia paste. This method is employed for secondary cervical in volvement.

The primary treatment by radium is usually followed two or three weeks later by treatment of bit in mphatic areas by surgery or radium or both. The author discusses the technique of applying radium in various locations and reports a few cases.

PHARYNX

CHARLES W FREEVAN M D

Mangaberra Albernaz P The Etiology and the Ethological Treatment of Plant Vincent An gina Lary gorcope to 9 xxxx, 1

The author states that Plant Vincent angina is a pharyngeal localization of fusospirochatosis

This disease is produced by the association of the fusiform bacillus of Le Danter with a sprochate which may be called Vincent's spirochate in default of an exact microbiological classification

In the treatment the use of bismuth or the areaohenzols is indicated. Bismuth is less toxic more powerful and more economical than the areaobenols and is immediately and certainly sedative allowing the pain. James C. Brassitzii M.D.

NECK

Wagner Jauregg J Preliminary Report on the Results of Golter Prophylaxis (Vollachiger Bericht ueber Erfolge der Kropfprophylaxe) Hus Mrs Uchnicht 1938 xli 833

For final conclusions regarding the success of elforts at gouter prophylaxis statistics must be of lected from regions in which the use of iodured salts of highestory. The period of observation (three and

that in a the nodule resembled a true benign paren chimatous neoplasm but did not participate in the hyperplasia present in the surrounding tissue. In 34 per cent the nodules were due to colloid cvsts. As all of this group were cases of long standing the chan e was attributed to over involution during spontaneous remissions or after iodine treatment Hypertrophy and hyperplasia were present in the nodules and surrounding tissue In 58 per cent of the cases there was a circumscribed hyperplasia with intervening areas of normal tissue Therefore the nodules found in toxic goiters may be true adeno mata over involuted tissue or circumscribed areas of hyperplasia Thyrotoxicosis with nodular goi ter is considered a more accurate term than toxic adenoma

Histologically the hyperplasia of hyperthy roidism is similar to the physiological by perplasia of puberty differing mainly in being more marked. Hyperplasia may be present without Basedow's disease and Basedow s disease may be present without apparent hyperplassa It must be remembered however that a very small hyperplastic area is capable of produc

ing intoxication

The todine content of normal glands has been found to vary from 0 48 to 27 mgm Bauman and Zett reported the average to be 66 mgm Oswald found the content of normal glands to vary from 048 to 136 while in 43 simple gosters the content ranged from 17 7 to 26 9 mgm The colloid gosters had the largest amount the parench; matous type had less and the adenomatous type had least. The total iodine was greater than the normal but the amount per gram of dried gland was less than the zormal

Colloid is essential for the storage of rodine Ha rine found more iodine per gram of dried gland in class of Basedow's disease than in those of colloid gotter indicating that iodine deficiency is not essen tal in hyperthyroi fism

Manne thinks the todine content of the adenoma is less than that of the surrounding tissue DeQuer

Yan has seen adenomata with 3 times the amount of todane in the surrounding tissue

In studies of the effect of the administration of lodine on the todine content of the gland Jansen and Robert found that without previous administration of todine there was a relative rodine deficiency in hyperthyroidism with a slight increase in the total toline content of the gland After the administra tion of sodine the normal gland showed a relatively great increase in todine while in simple gotter and hyperthyroi lism there was a moderate relative and absolute mercase

Before the administration of iodine in colloid goiter the todane content of the blood was 30 per cent of In Basedow's di case it was 3 times the

There was no relation between the sodine contert of the blood and that of the gland These andings indicate that the Basedow type of gland is a sble to store iodine because of excessive produc ton of the thy rold hormone After the administra

tion of rodine the blood in simple colloid goiter showed a great merea e in sodine indicating that excessive iodine in the blood is not responsible for the into ucation Certain patients with colloid or adeno matous gotter who became toxic after the adminis tration of sodine did not show an increase in the sodine content of the gland Others had an increase in the jodine content of the gland without an increase in the blood iodine. There seems to be a qualitative factor in the secretion which may or may not be iodine in nature

Rienhoff supports Marine s view that the action of iodine in hyperthyroidism is a mechanical interfer ence with the escape of the secretions into the cir

culation

The thymus gland is frequently enlarged in pa tients with hyperthy roidism. Warthin believes that hyperthyroidism occurs only in persons with the so called lymphatic constitution and that an en

larged thy mus is necessary Capelle found an enlarged thymus in og per cent

of cases in which death followed an operation for hyperthyroidism in 82 per cent of cases in which death resulted from the disease and in 11 per cent of cases in which death resulted from intercurrent in fection Marine believes the thymic enlargement is secondary and part of the systemic reaction

Garre reported a cure after thy mectomy and it is possible that some of the benefits of roentgen ray therapy are due to the effect of the irradiation on the

thy mus

With regard to the pathological physiology there are many theories all speculative. In Krehl's opin ion an individual predisposition is an important factor According to Aschoff a hypersensitive nervous system is responsible for the individual predisposi tion and there is more than one active principle

In Oswall's opinion the primary disturbance is in the epithelial cells of the thyroid which lose the ability to convert iodine into a form capable of heine stored the result being a high iodine content of the blood rapid excretion of todine from the body and

iodine deficiency

D Quervain believes there are multiple active substances life refers to Kendall's experiment in which different effects were noted with acid soluble an I alkalı soluble substances and calls attention to the dissociation of symptoms in cretinism. The cardinal symptoms of cretinism are skeletal changes mental defects and deaf mutism. In dwarfed creting the thyroid is atrophied whereas in the absence of skeletal defects it is of normal size or enlarged. The genitalia and growth of hair are defective in the dwarfed cretins but not in cretins of normal stature

In any explanation of the pathological physiology it is necessary to take into consideration the fact that only a very small amount of thy rold tissue is require I for intense into ucation an observation which discounts the presence of a pure hypersecretion

In the use of the term hypothyroidism there is much confusion At present clinical myordema or cretimism should be accepted as the criterion of hypomajority of cases several readings were made. The cases were not selected

The Aub Dubois formula based on the law of body surface and the Kestner Knypnig formula gave closely parallel results because of common factors but the value obtained with the former was renerally seven units less. When the height of the body is abnormally great or small the values must be judged with care but when the height is normal the results can be considered reliable.

In the cases of gurls who are growing rapidly and in whom a normal thryoid gland may be in contrast to a thin neck, the diagnosis of gotter must be made with caution. In the cases of others, a slight snelling of the anterior part of the neck may be called gotter especially when it is accompanied by pervous uson.

motor symptoms
The author a material is divided into the following

four groups
Group 1 Cases of gotter with clinical symptoms
of hyperthy reosis (Basedow a disease)

Group a Cases of gotter without clinical symptoms of hyperthyreosis

Group 3 Cases of gotter of Holmgren s type Group 4 Cases of slight diffuse enlargement of the

thy roid (thek neck)
Although the chinical symptoms in all of the cases
of Group 1 were similar and suggested the presence
of hyperthyreous; the basal metabolic rate in some
of them was within normal limits or only slightly

increased

In Group 2 the basal metabolic rate was within

normal limits or somewhat below normal Group included eases of goater which in addition to symptoms of hyperthyreous shoned an abnormal growth in height. In two there were symptoms of Basedow's disea e with a high basal metabolic rate in all except one of the others the hasal metabolic rate was normal. In the one exception the rate was they but fell to normal siter ho intal treatment.

In Group 4 the basel metabolic rate was normal in all except one case. In the one exception it was below normal and after thyroid medication the enlarge

ment of the neck disappeared

At the age of puberty the variations in the normal limits of the basal metabolic rate are much greater than in adul's especially when there is any deviation from the normal in the patient is height and well the dispension when the size of the dispension of hyperthyreoss but a normal basal metabolic rate does not exclude the presence of hyperthyreoss when the other climical symptoms favor the dispension A single clinical symptom does not pustfy the diagnosis of hyperthyreoss in or does a normal basal metabolic rate rate out such a diagnosis in the presence of clinical is symptom.

Zondek and others assume that in such cases of gotter with definite clinical symptoms of hyperthy reoss and a normal basal metabolic rate the condition is not a pure hyperfunction of the thyroid but is a dysfunction due to the effect of other endocrine organs By this hypothesis it may be possible to explain the mixture of symptoms of in perthyre is and symptoms of hypofunction of the thyroid a syndrome not infrequently found in cases of gottering girl at the age of puberty

E. S. Platt M.D.

Miller J L. Thyrotoxicosis from the Intemist a Standpoint Am J M Sc 2929 chrten 93

Physiological enlargement of the throat occurs during mfanoy at puberty and during pregnare At these times the gland histologically resembles the hyperplastic gotier of hyperthyrodism but does not cause touce signs or swipntoms. Some observers between the mistability of the nervos as sitem at puberty is due to a mild hyperthyrodism. Aschofferers to allow a finishing of an increase in the basis limitability and a single property of the control of the co

Iodine will usually prevent the physiological by perplasia. After the administration of jodine the byperplasia disappears and the gland reverts to the colloid type. Physiological byperplasia is not confined to gotterous districts but is more marked in those districts.

The amount of sodine required to prevent hyper plass is executed by small. The indired shit used in Setterdand contains; gight per kilogram and the annual intake of iodine is about 15 mgm. In America, the todined shit contains soo mgm and the annual intake of joidine is approximately does mgm or annual intake of joidine is approximately does mgm or annual nothing requirement of the thyroid under nor mail conditions as about to mail to the contained in the mail conditions as about to mail to the contained in the

The apparently excessive iodine content of salt is thought to cause the conversion of simple goiters into those of the touc type

In surgery of the thyroid the atrophy of the thy roid that occurs with advancing age must be taken into consideration

The first clear description of exophthaling goiter was given by Mobius in a monograph published in 1836. To date no one has improved on Mobius definition of Basedow s divease as an information of the body due to abnormal activity of the thyroid.

The pathological histology of the thyroid in hyper thyroidism is varied. St dies of the basal metaolism have shown the presence of hyperthyroid; in without material enlargement of the gland and the classical triad of goiter exophthalmos and tachicardia has been abandour.

Two general types of gland are recognized—the diffuse hyperplastic and the nodular or adenomatous It is debatable whether the adenoma is a tree tumor or merely a parenchymatous hyperplasia

Cettan ample adromata respond to other mb sam manner; a the hyperplate thyrods and a long and the sam than the same than the sam

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Skinner H A The Origin of Acoustic Nerve Tumors Bril J Surg 1929 xvi 440

Acoustic nerve tumors arise on the vestibular days monof the ence occurring on the non glial segment distal to the plane of the porus acusticus international becentral glial segment of the nerve is never in many involved in the tumor. The perspheral origin is dependent upon factors in the embryonic development of the nerve. The typical cell of the tumor is the seculemna sheath cell which develops from the tearnal resst. The fibrioblasts are of mesodermal origin.

The peripheral portion of the auditory nerve is in smeral similar to that of other peripheral nerves but contains a greater amount of fibrous tissue. This fi brous tissue is probably in the nature of a tissue reaction.

Too types of acoustic nerve tumors are distinguished the cellular and the fisherous. Those of the former type are probably of more rapid growth and more estaly removed at operation while those of the latter type have a longer hustory but tend to bleel more and are hable to be adherent to the dura adjacent tissues. Many tumors occupy an interme dute position between these two types

The type of tumor may be determined by the de gree to which the fibroblasts are able to confine the neurlemma cells during the process of development ALESKY S. CRAWFORD M.D.

TLULK

SPINAL CORD AND ITS COVERINGS

Burley B T Spinal Cord Decompression Indica tions and Results New England J Med 1929 cc 219

In Burley's opinion spinal cord decompression might be performed with advantage more often for puraplegias in the early stages with spinal cord components.

Compression of the suntal cord may be acute or whacter. The secure type may be due to fracture discostion of vertebre incorringe with or without farmatometra codema or compared and accept the subject of the subject of the security of the policy of the topic acting the policy lesson therefore a timer spihilis a circulatory lesson menungcal discover arachinetts.

The author reviews the literature briefly and reports three cases. The first case was that of a twelveter-old grif with an epidural absess which caused a complete block at the level of the twelfth dorsal stretch a Evecuation by laminectomy resulted in a complete cure. The second case was that of a man of

forty one years with a spinal block at the level of the twelfth dorsal vertebre a complication of pneumo coccic meningitis. Drainage was done but the patient died. The third case was that of a woman twenty two years old in whom a pressure myelitis and arachoolitis developed secondarily to an endothelial micloma of vertebre and a rib. Operation eviosed the lesson but proved fatal

ALBERT S CRAWFORD M D

Chlenoff Z G and Vodoguinskaya S V A Case of Spinal Arachinolditis Operated upon Twice (Un caso de arachoiditis espinal operada dos veces)

Ark arcent de neurol 1028 11 331

The patient whose case is reported was a woman tenety nine years of age who was admitted to the hospital on October 12 1925 for spastic paraparesis of the lower limbs In February 1923, she had had chills followed by copious sweating and for this conductors the had taken quinness as he haved in a malarial region. In the second week, of the illness she began to notice weakness in ferright foot. The weakness in creased and in September 1924 it was difficult for the toliff the foot and she was unable to take a long step. In March 1925 she began to notice weakness also in the left foot and she he frequently fell. After August 1925, she had difficulty in retaining her urines and her vision became noor.

When she entered the hospital her mental condition was found normal The spleen was enlarged The movement of all of the joints was limited by spasticity. At the Lines there was a hypertonic pendulum reflex Urinary continence alternated with unnary incontinence. Below the second dorsal vertebra pain heat and tactile sensation was de creased and below the fifth dorsal vertebra there was complete pain and temperature anæsthesia Muscle sense was normal The Wassermann test was negative Signs of compression of the spinal cord were noted Lipiodol stopped at the third dorsal vertehra but after a few days it passed on down to the third lumbar vertebra and a few days later only isolated drops could be seen at either of these levels

Mercury neosalvarsan and quinne were without effect. The symptoms progressed pain developed in the region supplied by the second and fourth dorsal nerves and there was a zone of hyperalgesia at the level of the second dorsal nerve. Ultimately the patient became unable to walk.

On February 24, 1927 resection of the laminæ of the third to fifth dorsal vertebræ disclosed in the substrachmod space a membrane stretched like a sail which was adherent to the pia mater and the arachmod This membrane was resected. After the operation the patient showed marked improvement thyroidism and not the basal metabolism alone since a low basal rate may be present without eve

dence of hypothyroidism The diagnosis of hyperthyroidism is complicated

by the frequency of simple goiter and the fact that in many cases of hyperthyroidism there is only very slight enlargement of the gland Signs and symp toms may precede an increase in the hasal rate Later in life and in long standing hyperthymidism there may be tachycardia or fibrillation with only a slight increase in the basal rate and the condition may be classified as chronic heart disease. Gotter and hypertension may be accompanied by increased metabolism without hyperthyroidism guishing a functional nervous disturbance from hyperthyroidism observation for a few weeks and repeated determinations of the basal rate are necessary

Iodine hyperthyroidism resulting from the admin istration of foding or iodized salt may be reheved by withdrawing the iodine Except in intense intruca tion observation over a period of two months is advisable before radical treatment is undertaken

Drug therapy does not cure apparent cure under medical treatment is due probably to the tendency of the disease to undergo pontaneous remissions Toding is not curative. Its chief use is limited to preparation for operation Digitalis is indicated only in auricular fibrillation and is less effective than in fibrillation due to other causes The best cardiac treatment is rest in bed Physical and mental rest is incapable of effecting a cure

Only surgery and roentgen ray theraps are bene ficial or curative. Roentgen ray arradiation is a valuable form of therapy and is free from the undesir able complications of larvingeal paralysis tetany and myxordema The administration of iodine before

operation has lowered the operative mortality The internist awaits the presentation of sati fac tory evidence of the percentage of cures by these two methods A report from the Lahey clinic in Boston is satisfactory for a surgical series except for the short time that has elapsed since the treatment. In 02 per cent of the cases there has been complete relief from the hyperthyroidism but is per cent of the patients show definite evidence of chinical myx cedema A high incidence of cures seems to be accom panied by a relatively high incidence of myxoedema

No follow up series has been reported for roenteen ray therapy

Following less radical removal the incidence of cures was reduced to 70 per cent approximately that ohtamed with the roentgen ray This is probably the limit of the curative effect of the roentgen ray Even though the higher incidence of cures following sur gery carries with it a greater incidence of myrode ma the aftermath is less disabling than the original disease

The use of the roentgen ray is not advisable in the severe cases since a period of from eight to twelve weeks must elapse before the results are apparent In the milder types roentgen ray irradiation is per missible but even in the milder forms either surven or roentgen treatment is much preferable to a hope for spontaneous recovery In the pre-operative preparation todine is essen

tial Sodium sodide is more palatable than Lugol's solution and just as efficient. One cubie centimeter of Lugol's solution is equivalent to 150 mgm of sodium sodide When rodine is continued over a long period there may be a return of toxicity. Iodine should not be discontinued until surgical measurer have been carried out

The length of time that the administration of sodine should be continued after operation is debat able and the value of jodine in preventing recurrence

is not settled The mode of action of sodine has not been deter mined nor has it been proved that large doses of rodine are indicated

A condition of rest favors better remissions The length of time required for a satisfactory remission is usually from eight to twelve days and occasionally as long as three neeks Longer delay is usually dis appointing from 5 to ro per cent of cases failing to show a remission

It is important to recognize the development of myzordema in order to prevent chronic invalidism

Of the operative measures subtotal thyroider tomy is more successful in relieving hyperthyroids in than lobectomy However the latter procedure gives a cure in about 70 per cent of cases without the danger of my acedema and when necessary may be followed by a second operation. When total the midectomy is required myxordema is unai of lable E. S PLATT M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Skinner II A The Orlgin of Acoustic Nerve Tumors Brit J Surg 19 9 xvi 449 Acoustic nerve tumors arise on the vestibular divi

source terre tumors are on the estimate two son of the ener occurring on the non glial segment datal to the plane of the ports acusticus internus the central glial segment of the nerve is never primitly involved in the tumor. The perspheral origin and perspheral origin of perspheral origin of perspheral origin of the enerve. The typical cell of the tumor is the endingman sheath cell which develops from the neural crest. The fibroblasts are of mesodermal origin.

The peripheral portion of the auditory nerve is in reacral similar to that of other peripheral nerves but coatains a greater amount of fibrous tissue. This fi brous tissue is probably in the nature of a tissue reaching.

Two types of acoustic nerve tumors are distinguished the cellular and the fibrous. Those of the former type are probably of more rapid growth and more easily removed at operation while those of the latter type have a longer history, but tend to bleed more and are label to be addressed to the data at speace to the tend as the same and are label to be addressed to the data at speace the tene these two types.

The type of tumor may be determined by the de gree to which the fibroblasts are able to confine the

neurlemma cells during the process of development

ALBERT'S CRAWFORD 31 D

SPINAL CORD AND ITS COVERINGS
Burley B T Spinal Cord Decompression Indica
tions and Results New England J Med 1929 cc

In Burley's opinion spinal cord decompression might be performed with advantage more often for paraplegias in the early stages with spinal cord com

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case or exchanged in the meaning resum in the author reviews the literature briefly and reports three says The first case was that of a twelve year-old put with an epidural abscess which caused a complete cute fock at the level of the twellith dorsal tertebra. Evacuation by laminectomy resulted in a complete cute. The second case was that ol a man ol

forty one years with a spinal block at the level of the theilfth dorsal vertebra a complication of pneumo cocci meningitis. Drainage was done but the patient died. The third case was that of a woman twenty two years old in whom a pressure myelitis and arachosolitis developed secondarily to an endo thelial myeloma of vertebra and a rib. Operation exposed the lesson but proved fatal

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Viercuty neosalvarsan and quinne were without effect. The symptoms progressed pain developed in the region supplied by the second and lourth dorsal nerves and there was a zone of hyperalgesia at the level of the second dorsal nerve. Ultimately the nation became unable to walk

On February 24, 1927 resection of the lamine of the third to fifth dorsal vertebrie disclosed in the subarachinoid space a membrane stretched like a sail which was adherent to the pia mater and the arachinoid Thus membrane was resected. After the operation the patient showed marked improvement but later she had severe pain in the feet and there was a considerable decrease of sensation of the root type in the regions supplied by the fifth lumbar to the third sacral nerves

At another laminectomy performed on June 3, 1921, the lamine of the third to fifth humbar vertebrie ware rescreted the dura matter was sectioned and a membrane similar to that found at the higher level was discovered. This membrane also was reserved Following the operation the patients aboved marked Following the operation the patients aboved marked for the market of the market of the properties of the continuing under the continuing and the patients with implections of fibridly sun and dathermy.

The patient is history of typical attacks of chills facer and sweating the irregular facer and the enlargement of the spicen irregular facer and inlargement of the spicen which is a management of the spicen which is a spice of the spicen is a indicate that the arachnoidity was caused by making. The marked and propressive improvement following the second operation indicates that only the memings were affected.

AUDREI G MORGAI M D

SYMPATHETIC NERVES

Cappell D F Retroperitoneal Ganglionic Neuro ma J Path & Ba teriol 1939 TXXII 43

New growths of the peripheral nervous system composed of true nervous elements are relatively un common. They usually occur in connection with the new common throughout the control of th

The patient a woman of twenty seven years complaned only of sight pain in the right addomen of one-year adviration. I bysical examination was essentially negative secret for a mass in the right humber region. A diagnosis of retroperationeal tumor was made and the neoplasm was exposed through a right rectus protision. It was adherent to the inferior vena cava and common flits venus but wa cleanly removed II measured 18 by 18 by 18 cm and weighted roop gm. Convolucione was unevential and three years later the patient appeared to be in perfect health.

The tumor probably arose from the abdommal sympathete chain Both its gross and its microscopical appearance was that of a gangloone neuromal to tructure was uniformly adult in type with non medibilated fibers markedly predommating over the page of the probability of the case confirmed the view that the tumor was simple in type.

The at he includes in his article a photograph of the gross cross section of the tumor two pyclograms and eight photomicrographs

ALBERT S CRAWFORD M D

MISCELLANEOUS

Danbeh F and Neddmann E A Milligare. Thymony with a Peculiar Placetastic into the Central Nervous System in a Child Three and a Half Years 10Å. Also a Contribution on the Children's Central Participation of Central Participatio

The authors report a malignant themoma in a child three and a half years old which was remark able on account of the metastases formed in the granial and spinal nerves. The peculiar propagation of the tumor in these nerves must have taken place by way of the cerebrospinal fluid from a plexus metastasis The case is therefore of special importance with regard to the still disputed question as to the movement and absorption of the cerebro must fluid. The manner of the tumor infiltration of the permeural and endoneural lymph channels in the dura strongly suggests that the greater part of the Cerebrospinal fluid is carried off through the lymph channels of the cranial and spinal nerves. At the sites of emergence of the nerves through the dura there is a physiological narrowing of the efferent lymph channels at these site especially ther had occurred in the case reported a massive implantation a tumor cells and extensive nodular swelling of the STATE (2) affected nerves

(rant F C The Relief of Pain by Nerve Section J Am M 422 1929 toll 216

The pain of malignant conditions in the enary distribution of the fifth grains lever cash or these the proper hranches of the nerve carrier large conditions and the proper hranches of the nerve carrier large to the proper hranches of the nerve carrier large to the proper hranches of the nerve carrier large to the nerve carrier large to the nerve carrier large to the nerve that the dead vallengers to continue proper treatment whereby the schengthened and a cure effected in some cases and in others the terminal period of life is rendered more comfootiated.

Sometimes of the floor of the mouth and tonal the pan in difficult to control as these regions are supplied not only by the trigominal nerve had so other cranial nerves and the cerv al invest. P use the extra I request the section I requestly beaution that the beautiful the section I requestly the section I requestly the section I requestly the section I request the section I r

Alcohol injection is suitable only for relatively small lessons in an area supplied by a single drivano of the netwer. It is sait (actory within its limited field but operation is preferable. Since most panell managingapiers are in the lower two thirds of the fare complete awal ion of the sensory root is usually unnecessary. Section of the nerve trunks peripheral

to the ganglion is a simple procedure and awords outblalmic complications

Greater relief is possible in cases of superficially sisted growths within the trageminal area than in these of growths involving the deeper areas of the fine and mouth. Complete permanent relief of just is skilled when the floor of the mouth torsullar publis or nasal accessory summer expectations accessory summer expectation.

may cause a securrence of the pain

When cessation of the pain and freedom from the necessity for morphine is obtained the result is considered successful. If pain recurs outside the trigenmal area but is easily controlled by morphine unideath the result is considered partially successful.

of fifty are patients with cancer of the face who see treated by nerve block thirty two were completely releved fourteen nere partially releved and more were not releved Of the nine who were not releved four showed extensive degeneration of the uperior manifal involving the accessory, sinuses and she had widespread involvement of the floor of the

mouth

In case of pain in the neck beneath the angle of the pas and below the sensor, distribution of the lagminal nerve laminectomy with section of the lagminal nerve laminectomy with section of the super these of pour posterior cervical nerve roots is not effective. The annexhems thus produced extension the vertex of the scalp down to the level of the other states of the scalp down to the level of the other states of the scalp of the scalpil. Howwer this office with the states of the scalpil of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex of the scale of the scale of the scale of the vertex the posterior and anterior triangles of the neck precludes peripheral nerve section and indicates cervical

rhizotomy

Neither ingemnal section nor cervical rhizolomy will affect pain deep in the ear or in the throat Section of the glossopharingeal nerve preferably intracramal than extracramal will relieve the pain in the throat but pain deep in the ear is not affected by this operation or by section of the vagus or extra cramal section of the cervical symmathetic chain

Following the success of nerve section in malignant conditions of the face the procedure was applied to malignancy in other parts of the body gastric crises

and painful amoutation stumps

nd paintul amputation stumps

Two methods are possible posterior rhizotomy

and chordotomy either unilateral or bilateral

Rhustomy should be used in cases of relatively localized lessons not involving more than four demandements. Because of the overlapping of the sensory nerve supply of adjacent sensory, segments the posterior roots running to the segments above and below the region involved must be cut. There fore six posterior roots must be sectioned for a lesson causing pain in four definitionnerses. Six roots can be exposed by removing five lamine: which is about the limit of safety.

Chordotomy is indicated in extensive unilateral or bilateral pain passing over nerve pathways entering the cord below the first thoracc segment. In Frazzer's opinion chordotomy above this level is un safe because of possible involvement of the phrenic distribution. The point of electron for sex engine of fourth thoracce segments. It is necessary to remove only three hamne. This procedure is especially indicated in malignancy of the pelvis with deep pain in the pelvis or the legs. T. S. Part M.D.

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Cheatle Sir G L The Interpretation of Breast Histology Lancel 1929 ccavi 37

Cheatle states that epithelial hyperplasia of the breast should be classified as genetic when it is nor mal as desquamative when the process ends in the shedding from the surface of the epithelium of cells which are incapable of existing separately or of multiplying and finally die and as dysgenetic when there is a pathological formation of himne cells which are capable of multiplying

He suggests the term mazoplasia to replace the term chronic mastitis since the condition to which the latter is applied is of the desquamative type and has no etiological connection with an inflammatory process Cystophorous (cyst forming) hyperplasta is the second process of the desquamative type and is important because it may become dysgenetic. If the epithelial hyperplasia is dysgenetic the pathologist should state whether it is papillomatous and confined within normal boundaries or has become a duct car cinoma

In Cheatle's opinion it is safest to remove all breasts that are cystic or contain dysgenetic epithe lial hyperplasia NATHAN & CROBS M D

TRACHEA LUNGS AND PLEURA

Ronzini M Pulmonary Tubercutosis and Uni lateral and Bilateral Pneumothorax in Preg. nancy (Tubercolosi polmonare e collassoferapie uni e li laterale in gravidanza) Cim estet 1928

There is no doubt that pregnancy may aggravate either an active or a latent pulmonary tuberculosis but it is true also that in a very considerable per centage of cases the pregnancy does not have any effect at all on the disease. As there are no accurate data available concerning the later prognosis of the tuberculosis in such cases the course to be followed in regard to the pregnancy should he decidedly con servative and abortion should be induced only when it can be proved that the aggravation of the tubercu losis is due to the pregnancy and is not merely an associated condition

As pregnancy does not constitute a contra indica tion to artificial pneumothorax the indications for this method of treatment are the same as in the non pregnant state In addition to its usual advantages this treatment has the advantage in pregnancy of overcoming the disequilibrium in the intrathoracie pressure caused by the pregnancy If the pnen motherax is induced with special care with only partial collapse and negative pressure and if a care ful watch is kept over the patient the treatment is

perfectly compatible with normal pregnancy and labor If pneumothorax cannot be induced for technical reasons extirpation of the phrenic nerve may be substituted as it has been found that paralysis of the diaphragm does not interfere with the normal course of pregnancy and labor

Ronzini reports five cases in which undateral pneumothorax was induced and one case in which bilateral pneumothorax was induced without inter fering with normal pregnancy and labor

AUDREY G MORGAN M D

Lifenthal II and Ambeeson J B Unilateral Pneumothorsx The Behavior of the Mediasti Unilateral

mum Arch Surg 1919 xvm 533 From a roentgen study of the behavior of the mediastinum in unilateral pneumothorax the au

thors draw the following conclusions In pneumothorax with an external opening blowing exercises tend to inflate the collapsed lung

- and force the medicatinum toward the open side 2 In closed pneumothorax blowing exercises tend to compress the collapsed lung and force the medias
- tinum toward the healthy lung which is also com pressed 3 In pneumothorax with an external opening straining with the closed glottis deviates the medias
- tinum toward the open side and expands the col 4 In closed pneumothorax straining with the closed glottes produces little or no deviation of the

mediastinum 5 In closed pneumothorax forced expiration

tends to rotate the heart and its attachments 6 In the roentgenological study of closed or open pneumothorax observations and records should be made in deep inspiration in full expiration and in

straining with the glottis closed J FRANK DOUGHTY M D

Dotley F S and Wiese E R The Effects of a Large Glosed Bilateral Pneumothorax or Thor acre Lymph Flow Arch Su g 1929 xvm 54

In experiments on dogs the authors found that bilateral closed pneumothorax caused a marked re duction in the intrathoracic lymph flow. They be here that it has the same effect in man and that in suppurative diseases of the lungs it may act bench cially by lessening the toric absorption that is break ing down resistance or harmfully hy producing an effusion with its attendant danger of infection his py ogenic organisms

They state that the operation of choice in tubercu losis is the one that gives maximal rest lymph stass and fibrosis with minimal pulmonary collapse and circulatory disturbance J FRANK DOUGHTY M D

Churchill E D The Strain on the Collateral Lung in Collapse Therapy 4rch Surg 1929 XVII 553

The author's experiments on cats have demonstrated that the burden thrown on a lung by sudden uccesses in the volume of blood flow is compensated for not only by an increase in ventilation but also by an increase in the area of the functional diffusing surface brought about by the opening of reserve capil.

in pathways

Therefore when clinical cases are studied with a
new to collapse therapy—the possibility of strain on
the collateral lung arising from an increased functional burden may often be greatly discounted.

J FRANK DOUGHTA M D

GEORGE A COLLETT M D

Kline B S and Berger S S Pulmonary Abscess and Pulmonary Gangrene Clinical Course and Pathology A ch Surg 1929 xviii 481

In pulmonary abores, the sputtum is whitsh velor mecoperuler and without an appreciable odor. When sushed it usually shows py ogenic organisms searchli stapphococci in pulmonary gangene the puttum is foul smelling and gravish brown or gravitation of the organisms of the organis

Pulmonary gangrene responds well to treatment with srsphensmine but poorly to abscess therapy

Lilienthal II Cyst of the Lung Recovery Follow ing Operation for Permanent Drainage 1rch Sarg 1929 zviii 202

The nuther reports a case of cyst of the lung in a senan fifty four years of age. For nine years the pittent had plan in the chest and for six months include in the chest and for six months network self-six night. The Nray treated in puper left part of the chest a large pobular mass which on aspiration yielded a choic oit-colored of the medication was displaced to the night and there was beginning obstruction of the coopshagus. A diagnosts of dermoid cvst was made to the night and there was beginning obstruction of the coopshagus.

Under local anesthesis supplemented by the use of antious oude a portion of the second in his was removed and an effort made to marsupashee the cycle the chest will. The cyst wall could be readily stated in the substitution of the chest will be contained many large vessely and the chest of the chest cause packing was inserted and the chest chest will be contained to be caused by great displace man of the meant of the many contained to the caused by great displace find in the chest. The introduction of dramage these resulted in thit relief.

At a second or mixer coars

At a second or mixer coars

and such as a second or mixer and such as a second or mixer as a second or mixer and second or mixer as a second or mixer

organized canal was formed between the cost cavity and the skin surface

The patient made a complete recovery and is now quite comfortable but must continue to wear a tube with a valve at all times to prevent distressing dispiner. On account of her age no attempt will be made to remove the cost will

Even though the contents of the cost dut not receal the bair and other elements usually found in dermoid costs the character of the cyst wall seemed to establish the origin of the cost definitely. In the author sopimon the embryonic origin of this type of cyst may be the punching off of a bronchus or bronchiole with the formation of a retention cyst or bronchiole with the formation of a retention cyst or practicely and the cyst of the cost of the cyst of the case reported may have been of either origin but on account of the total absence of an epithelial lining the author

believes it was due to a faulty anlage
WILLIAM J PICART M D

Meyer W Primary Cancer of the Lung Arch

Surg 1929 x 111 307 Kernan J D and Cracovanar A J Carcinoma of the Lung Arch Surg 1929 xviii 315

MEYER IS of the opinion that cancer of the lung is due like other cancers to chronic irritation. The irritation may be caused by the constant inhalation of smoke dust soot sakes or other impurities in the air. The more frequent incidence of cancer in the right lower lobe than in the left lower lobe to se verplained by the fact that the right main bronchus is straighter and larger than the left main bronchus. The lact that from \$8\$ to go per cent of cancers of the lung develop primarily in the larger bronchus and not in the parenchyma of the lung is probably explained by the vert rich blood supply of the paren

chyma
Meyer emphasizes that for improvement of the
results in pulmonary malignancy early diagnosis
and aggressive radical treatment of the cancer
while it is still limited to the bronchus are essential

AERNAM and CRACOANER report the case of a oman with complete attelectass of the left lung due to bfocking of the left main bronchus by a car cmoma. The tumor was seemingly entirely removed by the use of radium seeds and the application of the complete of the seeming of the properties of the complete of the complete of the complete of ment the patient has been entirely reherved of her symptoms.

This case is reported to emphasize the value of bronchoscopy in the diagnosis and treatment of tumors of the lung and the importance of investigating the cause of atelectasis by bronchoscopy

In the discussion Lenon called attention to the fact that hronchostenosis is present in the majority of cases of hronchial tumor

BRUNN reported two cases in which the roentgen ogram showed a tumor the size of an orange in the upper part of the chest. These cases resembled each other so closely that when the roentgenograms were compared it was scarcely possible to distinguish one from the other but at operation one tumor proved to be an osteochondroma arising from the intervertebral disks and the other a cyst arising from the posterior mediastinum

RALPH B BETTMAN M D

HEART AND PERICARDIUM

Cutler E C and Beck C S The Present Status of the Surgical Procedures in Chronic Valvular Disease of the Heart Final Report of All Surgical Cases Arch Surg 1929 2V11 433

Operation has been performed in twelve cases of chronic valvular disease of the heart. The authors review the ten cases recorded in the literature and report two in which they themselves performed the operation. The twelve cases include one case of aortic stenosis one case of pulmonic stenosis and ten cases of mitral stenosis

In the case of aortic stenosis, which was operated upon by Tuffer a finger dilatation of the aortic ring was effected by invaginating the aortic wall into the stenotic ring The patient recovered and showed improvement over several years of observation

In the case of congenital pulmonary stenosis with a patent interventricular sentum a tenotome was inserted into the right ventricle in an attempt to divide the stenotic valve. Death occurred shortly

after the operation

Of the ten patients with mitral steoosis only one is living. The mortality in this group was therefore go per cent. In the eight fatal cases, death occurred. so soon after the operation that the changes brought about in the mechanics of the circulation could not be adequately studied

In the case reported by Souttar a finger dilatation of the mitral ring was performed. The finger was inserted into the mitral orifice through an opening made in the auricle. The patient is still hving and

shows improvement

In the case reported by Cutler and Levme in which the mitral riog was incised with a tenotome inserted into the left auricle, the patient lived for four and one half years after the operation and showed general improvement although there was no definite improvement in the circulation

The exposure of the heart is determined by the method of approach to the valve itself. If the mitral valve is approached through the ventricle the midline sternotomy or large osteoplastic flap If the valve is approached through is necessary the auricle a less extensive exposure by resection of costal cartilages and the sternum may be adequate The problem of locating the stenosed valve by either

approach is discussed in detail In the cases reviewed three methods were used in the attempt to enlarge the stenotic orifice namely finger dilatation incision of the stenotic valve with a tenotome knife and excision of a segment of the stenotic valve with the cardiovalvulotome designed by the authors In one case in which death occurred

during the operation the cardioscope was used This gives only a very slight degree of visualization of the endocardium at the point of contact with the instrument

The authors believe that the gradual tran for mation of a stenotic valve to a valve of the insufficient type is more successful than a sudden change produced by the removal of a piece of the valve Honever this problem cannot be solved until it is possible to produce experimental stenoses similar to those occurring in man and then suddenly cause unsufficiency

The article contains eight plates shown the mi tral value after the operation in the cases that came to autopsy J LOWIN LIBERATRICK MD

ŒSOPHAGUS AND MEDIASTINUM

Friedenwald J Feldman M and Zlnn W F: Peptic Ulcer of the (Esophagus Am J M Se 1020 clayer 1

Peptic ulcers of the resophagus closely resemble peptie ulcers of the stomach and duodenum. They occur most frequently in the lower third of the asoph agus but occasionally are formed higher up Those situated near the cardia rarely extend downward into the stomach The lesions vary from minuteround or oval hamorrhagic areas to large irregular areas be tween 8 and 10 cm in length. They may be super ficial or deep. As so ulcer of the stomach there may be erosion of blood vessels with hamorrhage or per foration and the formation of adhesions to neighbor ing organs Although the ulcers are usually single they may be multiple Occasionally several ulcers coalesce to form large irregular lesions. The right posterolateral wall of the cesophagus is involved most frequently With healing of the ulcers cicatrices are produced which lead to stenosis

The ettology of peptic ulcer of the esophagus is similar to that of ulcer of the stomach or duodenum

The most prominent symptoms are pain dyspha gia and vomiting. The diagnosis may be greatly

aided by fluoroscopy and exophagoscopy

Four types of defects have been noted on roentgen ray examination mucosal erosions and pencirating spastic and perforating defects. The penetrating defect is pathognomonic Stricture is a complication seen after healing of the lesion

The treatment consists in the eradication of foci of infection rest regulation of the diet and the af ministration of olive oil alkalies and helladonna supplemented at times by the direct application to the diseased area of various remedies such as silver mirate In obstinate cases ga trostomy may be oecessars

The authors report thirteen cases Seven of the patients were males The ages ranged from twenty eight to sixty eight years In one case there were two ulcers Ame of the ulcers were in the lower third of the ersophagus one was in the middle third and four were in the upper third Dysphagia and substernal discomfort were present in all cases and pain was

present all but two P prous vomiting and regur guiton occurred in six cases and harmorthage in thre All cases showed ersophageal defects in the nestign picture. The duration of the condition maged from ten days to eight years. Light of the puttants were releved by simple dicetter and mechamangement. In three cases rehef resulted from durary measures and the focal application of silver united to patient was not benefited and one died of prioration followed by pneumonia.

MANUAL E LICRITENSTEIN M D

MISCELLANEOUS

Graham E A The Significance of Changed Intra thoracic Pressures treh Surg 1929 xvm 181

Online emphasures that the principle of comprises or collapse therapy has been of the utmost value in properly selected eases of pulmonary tuber colous and pulmonary suppuration but such treat ease that the made entirely safe and satisfactory only when we have acquired a much greater knowl only the collapse of the collapse of the collapse processes and the collapse of the collapse of the processes of the collapse of the collapse of the present of the collapse of the databases not only on the lung of the symme side but itso on the lung of the other side.

Of the other effects of collapse therapy some are beneficial and others are harmful In experiments on animals Sauerbruch found that an increased obsering pressure caused by an open pneumothorax mast the venous pressure in the extremities a result which seemed to indicate that the flow of

At the Washington University Medical School

St Lens Handaugum conversity accurate a contraction of the resistance of the normal and diseased most ordum. In contract the contract and the contract accurate contract and the contract accurate contract ac

a more robust condition by exercise

Thoracoplasty may markedly reduce the vital capacity but this is not necessarily a serious matter

unless the patient develops pneumonia or cardiac decompensation

Our knowledge of the effect of increased intra thoracic pressure on the pulmonary blood and h moh circulation is at best fragmentary. In experi ments on dogs Andrus found that after the ligation of the main branchis of one lung a marked reduction in the amount of blood occurred in the atelectatic lung. The presence of the atelectasis seemed to be the decisive factor in the diminution of the blood supply White and Gammon found experimentally that if fat is injected intravenously after the induction of unilateral pneumothorax all of it will go to the opposite lung. In experiments on rabbits and eats to determine the effect of increased intratho racic pressure on the lymph flow. Singu noted that after the inhalation of soot the production of a uni lateral pneumothorax greatly prolonged the time renurred for the elimination of the soot on that side as compared with the other side. He attributed this effect to a reduction of the lymph drainage caused by ammobilization of the respiratory movement Diminution of the thoracic lymph flow may at times be beneficial and at other times harmful Nagely concluded that the improvement after thora coplasty is due to a reduction of toric absorption resulting from the reduction in the lymph flow. In experiments on animals Bettman found that in the presence of pneumothorax the absorptive power of the pleura for fudia ink was reduced

Still more meager than our knowledge of the effects of compression therapy is our knowledge of the effects and potentialities of decompression therapy. However the straingly beneficial effects of the withdrawal of air or fluid from the pleural cavity in case of teglit pneumothorar or large accumulations of fluid suggest that in cases of severe dispined caused by extensive thoraci tumors a similar beneficial effect might be expected from decompression adduced by the removal of several rubs or by longitudinal splitting of the sternum. It is probable also that in certain heart diseases benefit might be expected from release of the pressure on the heart by cardiols use section of the rubs over the precordium.

RALPH B BETTHAN M D

SURGERY OF THE ABDOMEN

GASTRO INTESTINAL TRACT

Gaili G and Polacco E Experimental Physic pathology of the Stomach as Related to the Nervous System (Fisiopatologia gastnes spen mentale in rapporto coll apparato nervoso) Arch ital di chi 1928 xxii 269

By operations on the intrinsic and extrinsic nervous system of the stomach combined with partial or total ligation of the arteries of the lesser curvature the authors succeeded in experiments on dogs in changing the secretory and motor function of the stomach for a period of eight months and in bringing about characteristic anatomical lesions in a

large percentage of the animals

The effects on the gastric chemism in the thirty seven experiments may be divided into two groups In the animals subjected to gastric denervation by Latarjet's method and interruption of the vago sympathetic as proposed by Schiasst for ulcer of the duodenum there was a decrease in acidity and gas tric secretion and also in the peptic power. In the animals in which section of the vagosympathetic was done as proposed by Schiassi for gastric ulcer and accompanied by denervation of the lesser curvature there was an increase in acidity and peptic power These findings show that the nerves of the greater curvature have an important effect on secretory function

Roentgen examination more than chemical examination showed the effects of the operations on the motor function of the stomach that is the changes in tonus and peristalsis and emptying time of the atomach. In all of the experiments gastric tonus was most affected it showed hypotonia gradually increasing to atony with great retardation in the emptying time to as long as three times the normal Peristalsis was also affected there was a late decrease in peristalsis sometimes to a great degree with few and shallow peristaltic waves. The marked retardation of emptying was an important factor Peristalsis was good at first but tonus was defective from the beginning. The changes seen in the roentgen picture in the cases of animals subjected to Latariet's operation indicate that intramural innervation is not capable of keeping up the normal motor function of the stomach contrary to the con clusions reached by some investigators

In the cases of three dogs the roentgen demon stration of gastric ulcer near the pylorus was con firmed at necrops) Gastric ulcer was produced in six of the dogs 25 per cent of those that hved more than thirty days The ulcers were seen only in those subjected to total or subtotal denervation with the addition of Schiassi s operation for gastrie ulcer No ulcers were found in the animals subjected to Schiassi s operation for duodenal ulcer

The experiments show the importance of stomach innervation in the production of experimental ulcer particularly when there are other accompanying factors They demonstrate also that a certain degree of caution is necessary in operating on the nerves of the stomach for therapeutic purposes

AUDREY G MORGAN M D

Radice L The Physiopathology of the Castric Secretion in a Small Stomach without a Pedicle (Contributo allo studio della fisiopatol na della secrezione gastrica con piccolo stamaco senza peduncolo) Ann stal di chir 19 8 vii 867

The author criticizes the method by which Parlow and Orbels form a small stomach and study its secre tion as he believes that their technique may not section all of the nerve tracts. In his own expen ments a tubular diverticulum was first formed in the stomach wall and left attached by its base and in a second operation performed from fifteen to twenty days later the diverticulum was detached from the stomach its base incised and a fistula formed from it through the skin. In the interval hetween the two operations the diserticulum had formed adhesions to the omentum so that its nutrition was ensured after its detachment

Three of the six animals died from retraction of the diverticulum followed by necrosis of its end and perstantts The others were given various kinds of nutritions food such as milk bread meat and potatoes The secretion of the small stomach was then studied In one set of experiments the food was given by mouth and in another by rectum but in neither group was there any specific secretion from the small stomach The author therefore concludes that if the nerve supply of the small stomach is com pletely interrupted the stomach does not have a specific secretion. He intends to make further experiments in which foods and stimulating drugs such as pilocarpin will be introduced directly into the small stemach to determine whether they will stimulate AUDREY G MORGAN M D soecific secretion

The Etiology of Ulcer of the Greater David V Curvature (Actudone des Ulcus der Gro en Luf vatue) Acta chirurg Scand 1928 lxiv 329

The author describes two ulters of the greater our vature of the stomach

The first was an elliptical ulcer which developed in the deepest point of the prepyloric part on the basi of necrosis caused by 50 per cent chloride of zinc The presence of cancer was suggested by total anacidity and the findings of roentgen ray examination The roentgen signs may be explained only by a circular spasm of the prepyloric part Resection by the Bill roth I method was following by primary healing The

histological appearance of the lesion was that of a chronic peptic ulcer with intense inflammatory infiltration extending into the muscularis and subscross.

The second ulcer closely resembled macroscopically a simple peptic ulcer but histological examination revealed aleukamic lymphadenosis A Billroth II operation was followed by healing

In 200 cases of gastroduodenal ülcer treated in the second surgical chinc of Charles University in Prague this rare localization was found only twice and in neither of the cases was there a true peptic ulcer

In a review of the literature on ulcer of the greater curature since the Finisters and Glaessner report in 1914 the author found twenty four cases. In 466 per cent the lesson was proved histologically to he a true peptic ulcer. In 33 33 per cent it had a specific cause such as cancer tuberculoss or afect kernel kymphadenosis. Twenty five per cent of the ulcers nere not examined histologically.

Wilkle D P D Gastro Enterostomy Sirg Gyace & Obst 1928 alvin 79

By some surgeons gastro enterostomy has here abundoned as a tentment for gastroduodenal ulcera too By others it has been musued for the relief of gastro disturbances not associated with an organic lesson of the stomach or duodenum. However if we consider the many tens of thousands of persons who date their restoration to health from the time they water subjected to a gastro enterostomy, we must recognize that this operation had a large field of use fundamental place in surgery discusses and will have a permanent place in surgery

The most effective surgical treatment for after of the first goal and may which has led to stemost of the first part of the duodenum and distantion of the stomach is Sattlosymotomy. This operation is uniformly successful also as a supplement to the closure of a periodical chronic duodenal utder and in the majority of cases in which it is used as a supplement to statistic or cause of a supplement to the classion or cauterization of the utder if gives good

results

In the author's case, gastrojejunostomy is pie esded by the chimination of foot of infection in the teth. It is performed under general anasthesia supplemented by the local infiltration of per cent planeted by the local infiltration of per cent through the control of the control of the through the control of the control of the or in the cases of visceroptive and deferty patients a mid-epigastric incision supplemented by incisions in the anterior algores of both rectus sheaths

The author believes that gastroduodenal ulcera tions and infections of the gall bladder and appendix are due to intramural streptococci. He therefore deals as effectively as he is able with all foct of infection

The gastro enterestomy of choice is the posterior astro-enterostomy when it is possible. The most important single factor upon which the success of the operation depends is the site of the stoma. The stoma should be placed on thit part of the posterior will of the empty stomach which is directly opposite be beginning of the first coal of jejunum. The open lags in the mescolon must be adequate even if it is

necessary to sever the summit of the vascular areade. The stoma should be mide in a vertical direction across the long axis of the stomach. As a rule the author makes the anastomosis with clamps but in the cases of clderly patients and in difficult cases it is often best to dipense with clamps. In Wilkie's cases three lavers of tanned No oo catgut are in serted so as to control homorrhage but lightly enough to avoid devitalizing the tissues. The edges of the opening in the trainsverse mesocolon are tied to the stomach wall 3/2 in from the site of the anas tomoss. The anterior dioudenal ulter is invaginated by a Lembert suture of catgut. This invaginated have a Lembert suture of catgut. This invaginated have a Lembert suture of catgut. This invagination flavors healing of the ulter by creating a temporary

obstruction of the duodenal passageway. When a midline measion has been used the abdomen is closed so that the messal cut ends of the anteror rectus sheaths overlap the suture line of the linea alba. The rectus muscle then bulges on each side of the closure line when the patient strains thereby relieving the suture line of stress. Four figure of eight sallworm sutures are taken through the skin and the sutured linea alba and tied over a bulster.

In the after care nothing is allowed by mouth for twenty four hours and for eight days the patient is kept on fluids and given an islaine mixture. When there is heartburn or other evidence of hyperacidity intensive treatment with alkalies and atropine is given for the first few weeks.

STANLEY II MENTZER M D

Bastianelli P The Results of Resection of the Stomach for Gastrie and Duodenal Ulcer (4 multan della rescuone da stomaco per ulcera gastrica e diuodenale) Arch tial de chir 1928 vui 127

The author reviews 25 cases of resection of varying degree for active round ulcer of the stomach including excision of the lesson segmental resection and more or less extensive substait resection of the stomach. In this series there were a deaths. In the period from 1000 to 708 Bastianelli used the Murphy, button, but since 1928 he has preferred direct suture.

Stomach ulcers are generally considered to be in fected and the danger of the infection is believed to be greater the less extensive the resection Pauchet advises extensive resection but in the cases in which the author has done a circumscribed resection in fection has never developed. Bastianelli has per formed extensive resections only for the purpose of removing a farge acid secreting surface. In none of his cases has a recurrence developed and in all of them the symptoms have been cured Bastianelli states that gastrojejunostomy is an irrational and unphysiological operation Roentgen examinations have shown that it does not hasten the emptying of the stomach does not increase acidity and does not free the gastric mucosa from prolonged contact with the stomach contents which are almost always hyper acid Therefore the ulcer does not heal the pain 528

foration and degeneration Bastianelli has treated 17 eases of ulcer of the duodenum by duodenopylorogastrectomy and 45 cases of benign disease of the stomach including pyloritis very severe hyperchlorhydria with spasm of the pyforus and ptosis of the third degree by resection. In neither of these series of cases were there any deaths Therefore he has performed a total of 137 operations for gastric and duodenal lessons with only 2 deaths a mortality of 1 46 per cent He thinks that the high mortality in resection of the stomach for malignant disease is due to the

persists and there is danger of hæmorrhage per

malignancy rather than the operation TUDREY G MORGAY M D

Miller C J A Study of 343 Surgical Cases of Intestinal Obstruction Inn Surg 1929 lestis

The mortality of acute complete intestinal obstruction ranges from 55 to 65 per cent In 343 cases treated surgically during the last five years at the Charity Hospital and Touro Infirmary New Orleans including all instances of complete obstrue tion with the single exception of postoperative ileus (non mechanical obstruction) there were 200 deaths a gross mortality of 60 9 per cent. The unrevised figures from the two hospitals which include all cases diagnosed as intestinal obstruction regardless of their degree or type show the mortality in each institution to have been slightly less than 40 per cent whereas the revised figures show that the mor tality at the Charity Hospital was 65 per cent and the mortality at the Touro Infirmary was 50 5 per cent

Delay in surgical intervention reduces the chances of recovery the mortality rising approximately a per cent for each hour Mounthan says that any mortality over 10 per cent should be regarded as the mortality of delay

The alternatives are death or surgery and it is estimated that about 20 per cent of eases are oper ated upon with no more than a 1 or 2 per cent chance for recovery

The responsibility for delay may be with the patient the physician or the surgeon. The patient frequently treats himself for one or several days Some patients are opposed to surgery preferring to trust themselves to the non-existent chances of re covery under medical treatment Too frequently the physician is responsible for the delay giving cathartics and enemata and making laborators tests Taylor speaks of the mexcusable ignorance or earclessness of general practitioners whn see these eases early and treat them medically thereby laying themselves open to actions at law for malpractice if not for manslaughter

In 28 of the 32 eases reviewed in which operation was done after a delay in the hospital of from twelve hours to five days the surgeon was responsible for the delay and in this group there were 22 deaths

Operation for intestinal obstruction involves not only relief of the obstruction but also management

of the damaged bowel and combating of toxxmia It is only in the early stages that simple relief of the obstruction is sufficient. The sequelæ impairment of the circulation damage to the bowel wall with ultimate gangrene and the production of toxins are more important than the mechanical obstruction itself In the late stages relief of the obstruction may be dangerous in permitting the release of toxic substances into the intact bowel or the return of circulation to a necrotic loop Paralysis may persist after the relief of the mechanical obstruction Toxemia may be fatal in spite of drainage. Even when the patient is seen early while still in apparently good condition the toxins may have been

produced in fatal quantities The clinical aspect is the essential one yet the classical symptoms may be absent in the operable stage A carefully taken history frequently choice premonitory symptoms and Moyniban states that most abdominal eatastrophes mark an abrupt tran stion from the quiescent to the scute stage in a dir

order of long standing Of the patients whose eases are reviewed by the author 21 2 per cent had been operated uponmost of them for a pelvic condition or appendicuts The corresponding percentage in Finnes's senes of cases was 40 In 14 of the cases reviewed by Miller the operation had been done within the preceding

taree neeks The earliest symptom of acute intestinal obstrue tion is pain. This is usually sudden and acute st first colicky and intermittent and finally continuous When the mesentery is involved it is continuous from the beginning. It originates about the umbili eus or in the epigastrium and later involves the entire abdomen It is present in about 75 per cent of the cases

Compting also occurs in about 75 per cent of the cases Its character depends upon the site of the obstruction The development of true fiecal vomit ing has been characterized by Handley as not a symptom of disease but a sign of impending death In some cases its appearance is prevented by the presence of the obstruction in the small bowel

Absolute constipation is pathognomonic when present but is found in only about half of the cases In intussusception and mesentene thrombosis the frequent passage of thin watery blood stained stools is more usual than obstipation. Obstruction in the right half of the colon is manifested by obstipation and obstruction in the left half by diarrhosa The higher the obstruction the longer the time neces ary to demonstrate it

Distention is present in only from one third to one half of the cases It tends to be late in acute cases and is always late when the upper small intestine is

mvolved

Tenderness usually develops only after distention has occurred Rigidity is found with localized pen tunitis but is not constant. Its absence differenti ates intestinal obstruction from inflammatory conditions Visible peristals is pathognomonic but rare.

Of the cases reviewed by the author none pre sented the full classical syndrome

Shock is marked in certain types of obstruction it is always present in the early stages when the orculation is affected in the late stages with totamia and when there is extreme distention The toxemia of intestinal obstruction is almost universally believed to be affect to surgical shock

As intestinal obstruction is not primarily inflam matory elevations of the temperature are not usual in the early stages. Subnormal temperatures are frequent. In approximately 71 per cent of the fatal cases reviewed the temperature was below normal or over 100 degrees F

Elevation of the nulse rate with a subnormal or normal temperature is a valuable aid in the diar nosis In the cases reviewed , o per cent of the pa tents with a rate over 100 died and their deaths. constituted 50 2 per cent of the total mortality

Practically all white cell counts over 12 000 were in the cases of strangulated or circulatory obstrucbons The chief chemical changes were a fall in the blood chlorides and a rise in the carbon dioxide combining power of the blood There is a constant nse in the non protein nitrogen of the blood which when the patient is moribund may lead to a mis taken diagnosis of uramia

In the diagnosis a carefully taken bistory is of chief importance The symptoms and their relation to each other should be thoroughly savestigated and special attention paid to the character of the pain which is the chief diagnostic sign. Moynihan says that any acute abdominal pain not promptly re hered by a small dose of morphine indicates oper ation and other surgeons maintain that any ab dominal pain in a previously well person which lasts more than six hours justifies surgical exploration Subsidence of the pain may he misleading as it may be due to the development of gangrene

The physical examination should include auscul tation of the abdomen and digital rectal examination In the late stages auscultation reveals absence of all sounds except pulsation of the aorta Digital rectal examination may disclose an empty rectum with the walls crowding around the finger and above a sen sation of tremendous intra abdominal pressure Enemata will demonstrate obstipation only when the obstruction is in the lower bowel

Laboratory procedures are of little help but unnalysis should be a routine procedure A blood count is seldom of any particular value and de terminations of the blood chemistry are of no aid ray examination with barium is contra indicated

when obstruction is suspected

Operation is justified when there is a reasonable suspicion of intestinal obstruction Practically all conditions with which it may be confused are amenable only to surgical treatment When cardine pulmonary and renal disease are eliminated ex ploration is less barmful than delay

The most frequent causes of intestinal obstruction in adults are hernia and malignancy. The most

common cause in children is intussuscention small intestine is involved more frequently than the large intestine

The higher the obstruction the more quickly the symptoms develop the more rapidly the toun is formed the more serious the putlook and the greater the necessity for prompt surgical interven tion In obstruction of the colon the formation of the fatal town is slower but the prognosis is not correspondingly more favorable because in the ma sorty of cases the condition is due to malignancy

The author compares the mortality of the various types of pathological lesions in the cases reviewed with the mortalities reported by Souttar and

Tuttle

The mortality is directly related to the duration of the illness. In the cases reviewed the mortality for the first twelve hours (20 4 per cent) was higher than the corresponding mortality reported by Bowers (14 per cent) Tuttle (4 per cent) and l'inney (s per cent) Miller attributes the difference to the fact that many of the patients whose cases he re views were ignorant and in such cases it is difficult to determine the duration of the condition exactly Ife states that the mortality after the third day is generally agreed to be not less than from so to 60 per cent

The type of operation performed must depend upon the patient's condition Taylor's grouping of cases based upon the patient's condition is recom mended In cases of the first group the nationt is seen early while in good condition and simple relief with routine care is sufficient. In cases of the second group the condition is still fairly good but draining of the bowel is indicated for townia either present or impending In cases of the third group the patient is seen late his condition is poor toxemia is as important as the primary obstruction and only dramage by jerunostomy is warranted

In the cases reviewed resection of the bowel even with the added danger of anastomosis bad a mor tality of 23 8 per cent whereas the mortality of apparently conservative treatment of gangrenous or merely suspicious areas of the wall by invagination or pheation was 97 5 per cent Simple herniotomy had a mortality of 57 7 per cent due undoubtedly to unsuspected damage to the wall

The success of any procedure is based upon its relation to the pathological lesion and the condition of the patient. The experienced surgeon is content if he saves life even if he does not complete his

A gangrenous bowel should never be left in the abdomen whether it is drained or not. The short circuiting operation of llandley is valuable but is limited in its application Enterostomy is indicated whenever toxemia is a factor. The loss of digestive fluids is decreased by the Witzel technique which also provides against the development of a fistula In malignancy of the large bowel carcostomy should be a routine procedure. The two stage operation is generally preferable in this condition but immediate anastomos: is almost essential when the small in testine is so involved as to require resection. Wilkies a method in which the fluid from an upper enteros tomy is allowed to return through a foure enter colomy, has considerable to recommend it

The success of surgery in intestinal obstruction is based not upon the procedure adopted providing it stops the formation and absorption of the toxin relieves the distention and establishes the factal flow but upon the adaptation of that procedure to the conditions present in the particular case

As intussusception and volvulus are prone to recur the faulty anatomy should be corrected if

the condition of the patient permits

It is almost universally helieved that because of the state of shock the blood changes the inhihition of peristalsis and the possibility of postoperative comiting which are associated with the condition spinal and local analgesia are preferable to geografi anasthesia and especially to ether anasthesia for operation in intestinal obstruction. The author doubts the wisdom of a general application of this real oning. In the cases reviewed the mortality of operations performed under local analgesia was 20 per cent higher and the mortality of those performed under spinal analgeria was 10 per cent higher than the total mortality. Although other was employed most frequently the mortality in cases in which local analgesia was induced was 30 per cent higher and the mortality in cases in which spinal analgesia was induced was 20 per cent higher than the mor tality in cases operated upon under general ances thesia. Moreover the hospital using general annesthesia in only 45 per cent of the cases had a mortality 15 per cent higher than the hospital using general angesthesia in or per cent of the cases and the surgeon using general anasthesia most frequently had the lowest mortality. The duration of the oper ation averaged twenty eight minutes more in the cases in which local analgesia was used and twenty seven minutes more in those to which spinal anal pesta was used than in those in which general anasthesia was employed Prolongation of the procedure and the excessive manipulations under spinal and local analgesia are of necessity deleterious when speed and gentleness are essential Moreover neither local nor spinal analgesia prolongs ble However serious the patient's condition gastric

However serious the patient's condition gastine. lavage and the administration of normal salt solution by hypodermodysis or influsion are essential differ operation the treatment should be based upon the requirements of the particular case. Continued gastine lavage is important. Chemical examination of the blood is essential as an index to the use of salt solution or glucose and insults.

The work of Hermann at the Mayo Clinic in regard to prophylactic immunization presents a strong argument for the two stage resection as at seems to prove that the higher resistance of the patient at the second operation is due to the production of an active local perstoned immunity from the solling of the first operation

Williams use of anti-gas serum is based on the theory that the tovernia is due to the bacillus welchii and seems to have possibilities

Intestinal obstruction seems to be slightly more common in the colored race than in the white race and more common in males than in females

In the cases reviewed the ages ranged from thir teen days to minety two years but nearly half of the patients were between twenty and fifty years old Thirty two and four tenths per cent were over fifty

years of age
In 16 cases treated medically the hospital mor
tality was 87 s per cent. The removal of a patients

tality was 87 5 per cent. The removal of 2 patients from the hospital when they were nearly moribund explains why the mortality was not roo per cent.

In conclusion the author emphasizes that prompt operation offers the only means by which the mor tality of intestinal obstruction can be bround within reasonable fimits

E S Peurr M D

Smithles F Weissman M and Fremmel F Tuberculous Enterocolitis J Am M An 1915 201 1952

This article is based on eighty cases of dispegua due to secondary involvement of the intestines by tuberculosis. Forty four of the patients were male the average age of the patients was thirty to age and and the average duration of the primity tuberculosis of the lungs was from and six retails sears. At the time of observation tubercle briefli were found in the sportum in forty nine cases.

Intra abdominal tuberculoses rarely occurs manly in the stomach or the proximal two-therds of the small bowel but in 05 per cent of the cases it is vades the terminal feur the occurs the appendix and the same that the state of the cases in the rate of flow of the intestinal content in enterocolonic tuberculosis, whether scute or chronic there is unterference with the normal neuro-

muscular mechanism
Experience has shown that in approximately for
per cent of the cases tuberculous entercolitis begin
as a relatively well localized lesson. Frequently
early localization is in the appendix or excine its
early localization is in the appendix or excine its
tuberculous in the fallopian tube or overcome interest
vedence that it times the intra comment in the servence of the interest in the comment of the comm

The authors divide cases of tuberculous enterocolitis into the following three groups

Group r Those in which there is a mildly active or quiescent pulmonary tuberculosis accompaned by dispeptic disturbances and addominal examination does not reveal any striking physical anomalies

Group 2 Those in which there is an active or quiescent pulmonary tuberculosis associated with digestive disturbances of varying duration and abdominal examination reveals mild and often lo

calized physical anomalies Group 3. Those in which the pulmonary tubercu loss is commonly active but occasionally quiescent and accompanied by pronounced digestive disturb ances which are usually constant and abdominal

examination reveals advanced physical anomalies
Of the cases reviewed seven belonged to Group z
forty one to Group 2 and thirty two to Group 3

In cases of Group 1 the roentgen evidence is what is usually regarded as inferential Deforming lesions are difficult to demonstrate In cases of Groups 2 and 3 the roentgen studies almost uniformly reveal evidence of gross lesions seriously altering the shape of the terminal lieum and the colon

For cases in Group r in which the pulmonary regions are not extensive and the bowel in observed in localized the authors and ocate early exploratory. Biparotomy with removal of the localized disease whenever possible. Tuberculosis of the appendix and falliopian tubes should be dealt with by excussion in cases in Group 2 surgical exploration should be done only when the pulmonary lesson is not extensive or actively progressive and the howel disturbance is minted. In cases in Group 3 surgical measures are

contra indicated The diet given to patients with tuberculous en terocolitis should be such that little residue remains alter digestive absorption Milk should be boiled or citrated When there is fever fluids should be pushed The fattening process common in the die tetic management of tuberculosis does more harm than good Heliotherapy seems to relieve the pain and increase the general comfort but there is con inderable doubt as to whether it has a healing influ ence on intestinal lesions. The bowel pains con stipation and other symptoms of early enterocolitis may be relieved by the free use of liquid petrolatum This protects the ulcerated mucosa against the trauma of the intestinal contents. In severe cases the use of opium bismuth or morphine is often hecessary JOHN W NUZUM M D

lielistrom I Choleic Acid Enteroliths (Zur kenntnis der Choleinsaeureenterolithen) 1cla chi nu t Scand 1028 luv 70

The author adds two cases of his own to the five cases of choleic acid enterolitis previously on reord and reports the clinical histories and the results of chemical analysis of the stones in the seven cases. Although choleic acid stones are made up chiefly of a bilary acid they are formed in the intestine material of the gall bladder. This was proved by

instead of the gall bladder. This was proved by the fact that the gall bladder was found normal in the two cases reviewed in which it was examined by the presence of vegetable residue in the stones of two cases and by the presence of large numbers of binteria in the stones in five cases.

The stones seem to be formed as the result of a marked increase of choleic acid in the intestine con civiably due to an abnormally rich excretion of odium glycocholate with the bile or as the result

of the umon of deoxycholeic acid and higher free fatty acids in the gut itself

The production and growth of choleic acid entero liths seems to be favored by abnormal disintegrating processes due to bacteria as well as by mechanical factors such as strictures in the small intestines

All of the cases on record were those of women The youngest subject was thirty one years of age

and the oldest seventy five

At operation the stones were found in different parts of the small intestine between the duodeno pipunal flevure and the eleocracil value. In three cases they were associated with a tuberculous stricture. These weight varied from 2 to 45 gm. The tontent of choler and was usually 75 per cent. In multiple concretions were found in another a surveyed to the control of the control o

There is no feature by which choleic acid entero liths can be differentiated before operation from gall stones which have escaped into the intestine or ordinary intestinal concretions. Their nature can be determined only by direct inspection and chemical analysis.

Cholesc acid enteroliths are dangerous and should be removed by operation. No instance of their spontaneous discharge except partially by vomiting has been recorded.

In the three cases reviewed in which the atone was associated with a tuberculous stricture intestinal resection was done with a good result. In the others the stones were removed by enterolithotomy but two of the natients died

Stone II B Chronic Ulcerative Colitis P nnsyl

Chronic ulcerative colitis is a condition of un proved etiology which presents a varied clinical pic ture It is resistant to treatment tends to recur causes grave disability and has a considerable mor tality Treatment is in general unsatisfactory Three classes of cases may require surgical measures (1) the relatively mild group that fail to improve in spite of medical methods and result in chronic invalidism (2) the persistently recurrent cases and (3) the ful minant cases with great loss of weight marked anzemia and asthenia. In these three types of the disease operation should be performed before the general condition becomes critical and before sys tems; infection develops. In general, the operation of choice is ileostomy but under special conditions other surgical procedures may be preferable

Melsen \ The Injection Treatment of Hæmor

Having treated 1 700 cases of varices by injection the author first reviews his impressions of this treat ment which were published in the 1cto chrungton Scandisorica three years ago. He states that in Denmark the injection treatment is now generally preferred to operative treatment for varices. The

MANUEL I LICHTENSTEIN M D

last advance is the use of a 50 per cent solution of glucose for the injection of small thin walled varices this agent heing painless and producing no necrosis

In the treatment of harmorchouls, the mpection method has been used by the author with good results in 100 cases. In one case, however an abscess and anal fastial developed as the result of necross three months after the injection of an internal harmorrhoid. The indications for the injection harmorrhoid. The indications for the injection of the

necessary

The himmerhoids are brought down outside of the anus by means of suction with Biers cup or by making the patient to be at down against the explor mag finger. An injection of about r c cm of move came is then given and followed by i c cm at the most of a solution containing quinne chloride of set hylumelano of 3 and distilled water to make r c cm It must be borne in mind that the hemorrhoid may become if the pleus of dilatted venso or a simple containt of a pleus of dilatted venso or a simple

Messes believes that the injection method should take the place of surgery in the treatment of harmor founds because it is panies? does not confine the founds the cause it is panies? does not confine the light of the place of the confine the conf

LIVER GALL BLADDER PANCREAS AND SPLEEN

Lindquist S Four Cases of Abscess of the Liver Fotlowing Appendicitis (Quatre cas d abces du fore consecuties à l'appendicite) Acta chirurg S and 1018 Livy 253

The author reports four cases of abscess of the her following acute gangerous appendicates with purulent pentionitis. In all of them there was an irregular (applic) ever and in Cases 1, 3 and 4, this was the fe only significant symptom during the greater part of the pentiod of a symptom during the greater part of the pentiod of any pelargement of the liver. In Cases 1, 2 and 5 there was no pain at all and in Case 4 there was only slight pain on pressure.

In Case 1 in which the appendectomy was done the second day after the beginning of the append to its the abscrap probably developed from a retrocased infection about the thirteenth day after the open tion. The pattent died on the isventy fourth day Autopsy showed a solitary abscess in the center of the right lobe of the liver.

In Case r the appendictus began with very severe symptoms—chills interus the appearance of blood in the unne and marked deterioration of the general condition. Autopsy revealed multiple abscesses in the liver.

Case 3 aboved no symptoms except a septit temperature and the twent sextentid as after the operation when \ ray examination revealed elevation of the disphargam on the right side. At laparotom valarge abscess surrounded by small abscesse was found in the center of the right lobe of the live. The found in the center of the right lobe of the live. The day of the origin of the notion and the second of safter the last operation. The origin of the whole was probably a thrombophic bits of the omental cenextending toward the portal.

Case 4 showed only a septic temperature until the thrty fourth day after the appendacions, when the patient complianced of slight pain opposite the minh and tenth plan and at this palo a slightly dimminded resonance was noted. Puncture evacuated pus. Operation with rescention of the tenth rib and the asynction of about 40 c cm of pus was followed by te covery.

Cacconard! G Muttiple Miliary Abscesses of the Liver Laparotomy and Vaccine Therapy Recovery (Assess migian multipli del fession laparotoma e vaccinoterap a guangions) lan idid the ther 1028 via 016

The patient whose case is reported was a man forty seen pear of age with no history of special importance except that he had had maken who young His presentitions began in September 1000 with digestive disturbances and fever. The fever was at first skipht but increased to a ode, rest? I and became continuous. The patient then had frequest childs and attack of sewaring in the morning Alice about a month he began to have pain in his different continuous of the second of the s

Injections of emetin and unotropus were without effect hut after any pyogenic vaccine treatment the patient was discharged well in three months. He remained well for about six months but an May 1927 he began to have high fever associated with intense

pain in the right hypochondrium and voimting At operation performed on May 20 1927 the spleen and liver were found enlarged and the who is surface of the liver covered with innumerable surface of the liver covered with innumerable most about any large abuses and examination of the lie ducts was negative. As nothing could be deather the abdomen was closed. Recovery was uneventied.

A few day after the operation s accure treatment was beginn again anti-colon heclins and polywlent and stabily-fooccus wacenes heing given on after that days. The do age was aft first 50 million betters and was increased to 3 billion. In addition untravenous injections of a gental condition in motions were given to the patient was descharged with the patient was studied with the patient was studied with the patient was descharged with the pat

spicen was still enlarged but the haer had returned to its normal size

The lessons in this case could not have been insubic abscesses as in amorbinass the abscess is generally solitary the patient had never suffered tom disorder; and treatment with emetin was inefficitive. The route of the sufection must have been a retrograde route from the duodenum Excellent recover; resulted from a diet which spared the her the intra-enous injection of uncropped the production of the prod

Robbani A The Late Results of Cholecystectomy for Caiculous Gholecystifis (Estudio del posto p rator) alejado de los cofecistettomizados por colecistitis calculo 3) B I vist d ella guar 1925 1 8t

Robinan reports in detail so cases of calculous coloristics treated by cholecy accroim. The results show that cholecy steetomy is an extremely valuable operation. Fifty per cent of the patients are completely cured and 45 per cent were greatly

benefited Serious accidents following the operation are very He In reviewing the histories of 8 700 cases in which cholecystertomy was done the author found only 3 that required re operation-2 for a new growth caused by the calcult and 1 for cicatrical con striction of the common duct Sequele due to peri duode al adhesions recurrences calculi overlooked or miuries of the common duet can be reduced to the minimum by a estreful surgical technique and very careful explo ation of the abdominal viscera near the gall bladder Slight disturbanees such as gastric symptoms and continuous subhepatic pain are often caused by periduodenal adhesions Intermittent attacks of pain are evidently due to inflammation of the common duct. They are very frequently of the type of hepatie colie and are oceasionally accompanied by fever and sometimes by a slight subscience color but they are always shorter and much le s in tense than the attacks of pain preceding the opera in All of the author's patients with such dis turbances led an active life and the symptoms tended to disappear with proper diet and medical treat ment The slight disturbances in the author's cases were not caused by insufficiency of the liver as functional tests showed bepatic function to be normal In 80 per cent of the cases the cholestern tor tent of the blood was below normal while in 20 per cent it was sightly above normal

Boentgenograms showed that perdosederal ask tooms are almost always formed after the operation values the technique used nor the method of dram ask explains, them in some cases in which there was strophic sclerosis of the gall bladder or intense periodes, the tool of the content mainformations of the ducinum were greater. Even ideal the lock-sistentially with periode preinformations of the blad for does not prevent postoperative periodes and in the content in the con

chmcal symptoms and when it does produce them they are not proportional to the degree of roentgen malformation of the duodenum

The Meltzer Ly on test shows that when cholecys tectomy, has been performed recenfly the provoked hale has a poor concentration and is as pale as Bile A in cases in which cholecystectomy has been performed some time ago there are a types of provoked bile. The first type is light in color and poor in concentration and the second; as a dark as the B bile of normal subjects but lacks the concentration of a true B hile which is 3 or 4 times greater than that of A hile.

Llambias J Braehetto Brian D and Orosco C Cancer of the Ampulla of Vater (Contribution al estedio del cancer de la ampolla de Vater) Semana med 1928 vvv 649

The authors report four cases of eancer of the ampulla of Vater Three were those of men forty ruo fifty one and forty years of age and one was that of a moman forty one years of age

The cardunal symptom of caneer of the ampulla of Atex Atems from retention usuall, develop, early but under certain circumstances may not appear. The tumor is generally small and protrudes into the lumen of the duodentum. It may invade the musele tunic of the duodentum is none of the authors cases and may extend to the pancreas, as in two of the authors cases in the Cases reviewed the incidence of extension into neighboring organs was very high Metastases are rive probabily because retention of bile causes death before they have time to develop in the authors case with extension to the pancreas there were also metastases in the perinduodenal elands the liver and the perieardjum. Cancers of

common duet ongin seem to be most frequent. The climed diagnosis of earner of the ampulla of later is relatively difficult. The neoplasm may be confused with enneer of the head of the pancrass or of the bile ducts with ulcer and with lithiaws. Sometimes a cancer of the ampulla of later may cause refler pilone symptoms and conversely a lesson of the pilotous may cause teller and the may be cause waterian commons.

It is impossible to make a histological classification of these tumors as each of the organis from which their may originate—the common duct. Wirsing a duct and the duodenum—give rise to epitheliomata which cannot be differentiated from each other. These neoplasms are of a evaludical type. They may or may pot he purely agnosis.

The treatment of cancer of the ampulla of Vater is surgical Operation at least prolongs life sometimes for quite a long time AUDREY G. MORGAN M.D.

Petermann Closure of the Abdomen without Drainage in Operations on the Bile Fracts (Jun Frage de drainagelosen Bauchschlu ses bei Opera to sen an den Callenwegen) Z nirolbi f Chir 1928 p 2450

l etermann's report is to be considered a reply to the publication of Pribram who advocates primary closure of the abdomen after all gall bladder opera tions Petermann disagrees with Pribram on the basis of his results in a very extensive material Petermann has employed charring of the mucosa the so-called mucoclasis for many years. He agrees with I ribram that exact peritonealization of the existic duct stump and the gall bladder bed as most empor tant Thus far he agrees with Pribram However he completely closes the abdomen only if the gall bladder bed is peritonealized the liver bed is unin jured and the cystic duet stump is satisfactorily closed and covered with peritoneum. The last how ever is not always possible particularly if the com-

mon duct has been explored The author's objections to primary closure are based further on the fact that suture of the common duct is not always reliable that drainage of the hepatic ducts is indispensable in severe cholangeitis with our and fibrin formation in the bile ducts and that no unperstonealized surfaces can be left behind The disadvantages of drainage mentioned by Pri bram are not all due to the dramage alone and it would be extremely dangerous if Pribram's recom mendation were followed indiscriminately by inex

perienced surgeons

Petermann then discusses the late results of hile tract aurgery Of 6So patients who were followed up (So per cent of the total number) 540 (S5 per cent) were s3 mptom free 70 (10 per cent) had mild s3 mp toms 34 (5 per cent) were unrelieved and 41 had a herma Most of the hermin followed mid line incisions According to Petermann adhesions are of little importance only callous scars fixing the py lorus to the liver necessitate re-operation Adhesion formation is reduced to the minimum by careful peri tonealization of the gall bladder bed and restriction

of the use of packs. True recurrences are very rare Petermann found new concretions in the common duct only twice Squeezing of the gall bladder con tents into the common duct should be avoided by first emptying the gall bladder with a water pump and then clamping or tying the cystic duct. Feter mann has seen 5 stenoses of the common duct. Three were escatricial and were carcinomatous. Some tumes so called recurrent colics are due to dilutation and tension of the bile tracts Functional processes also play a rôle According to Petermann's expen ence the more marked the findings at operation the better the results Frequently the administration of a ro to 20 per cent magnesium sulphate solution has a favorable effect Pancreatitis is also a cause of late symptoms In mild cases the treatment indicated is dietary measures and the administration of insulin In severe cases surgery is necessary Gastric and duodenal disturbances following operation are best treated dietetically Petermann has seen definite gastric or duodenal ulcer 5 times. In 2 cases the lesion was certainly not present at the time of operation but in the others it may have been overlooked Chronic appendicates and diseases of the kidney and ureters may also cause persisting symptoms Leter mann was able to demonstrate the very important fact that when appreciable late symptoms occur the disease has usually existed for a long time before operation therefore early operation should be per formed In the discussion of this report Marrens and

MCERSAM agreed with Petermann

PREBRAM again recommended his method in a fengthy presentation

NORDMANN and BIER stated that general abolition of drainage is impossible LOCKLER (Z)

GYNECOLOGY

UTERUS

Basset A and Poincloux P The Treatment of Metritis by Intramucous and Submuconus In jections of vaccine Lucal Vaccination (Traite ment des métrites par injections intra et sous muqueu es de vaccins la vaccination régionale) Gote it obsi 1928 vuil 289

This is a study of local immunization as applied to the iterus

The u of local vaccination requires a knowledge of the infecting agent and the issue through which the infection has occurred. The object is to increase the resistance of the tissues constituting the portal of city. In the case of the uterus this is accomplained by submucous and intramucous membrane incetions of vaccine.

The contra indications to this method of treat ment are few pregnancy and a poor general condution (the latter especially when it is due to tuberculosis). The authors have had experience with all forms of metritis except the acute puerperal form.

In the course of a three year study the following methods have been developed

The patient is carefully examined both from the reneral and gynecological standpoint history some idea can usually be obtained as to the nature of the infection-as to whether it is gono coccic or puerperal The local examination is made at least twenty four hours after a douche Smears are taken from the cervix and for the culture mucus is placed in 6 or 8 c cm of normal saline solution for transportation to the laboratory The specimen is placed in boullion and on ascites agar or blood agar After from twenty four to forty eight hours colonies are picked and transferred for identification final cultures serve as a vaccine to which is added a stock gonococcic vaccine if it appears that the gono toccus was the original invader. The vaccine is heated just sufficiently to inactivate it

The treatment consists of from a to no upertums and beneath the mucoan in the vaginal portions of the certic that show pathological changes and insults on the mucoas of the casal. As or 5 c on a senge is employed with an extension and a fine straight needle an appartus adentical with that employed for the injection of an anisthetic about the tunnel The total quantity of accure administered at a single treatment is from 0.5 to 3 c cm. While the injections alone suffice it is believed advisable to dilate the cervix with a yavlve Sins speculium ar a long forceps before each treatment.

There are no local effects of consequence but a general reaction often of considerable violence soon follows the injections The usual symptoms are a

chill fever headache msusea and general malaise When a gonococce vaccine is used these swiptom appear within from fifteen to thirty minutes. The duration of the reaction is usually from three to six hours and occasionally from ten to twelve hours. Following the use of colon bacillus vaccine the reaction develops more slowly and may last twenty four hours and gastro intestinal disturbances are more prominent. As the treatment progresses the symptoms become less violent and this change

oradials the progress of the cure
Of the women treated 20 were examined with re
gard to the end results. Nuncteen (65 per cent) were
completely cured 8 (27 per cent) were greatly
benefited and 2 were unrelieved. The last were
suffering from severe tubal lessons which caused re
peated re infections of the uterus. Of the patients
cured some had salingnitis and parametrist. These
lessons subaded with the metritis. In 5 cases there
was involvement of the body of the uterus which
caused persistence of the leutorihora. To treat this
injections into the endometrium. The results was
comparable to those obtained in the treatment of the

cervical lesons in the course of this study certain facts were brought out relative to the flora of the uterus. The organisms are classified as suprophytic and patho genic. The saprophytic group include the coccus variants (the same shape as the staph) lococcus but with different staining qualities) and the bacillus againals. Numerous varieties can be distinguished but they are without clinical interest. The patho gene organisms include the gonococcus colon bacillus staphylococcus enterococcus streptococcus and diphtherous

The gonococcus is not infrequently found in the smears hut rarely in the cultures (3 times in 152

The hacilius coli is of great importance in uterine infections. It usually appears in the cultures rather than in the smears.

The staphylococcus seems to play a minor rôle
The staphylococcus albus is the type usually found
and relative to its pathogenicity it stands at the end

nf the long series of cocci vaginalis

The enterococcus plays a certain part in metritis
hut was found only 5 times in the series of cases

reviewed

The streptococcus is quite often identified in

smears hut is grown with difficulty on culture media

Diphtheroids were identified 5 times

Other pathogenic organisms sometimes found are

the pneumococcus Friedlander's bacillus Pfeiffer's hacillus and sarcina

The disagreement between the information furnished by sincars and cultures shows that betterio logical examination alone is not enough to establish the etiology of metrits. It is only by combining the bacteriological and clinical findings that an approach to a disagnosis can be made.

Certain facts concerning the relation of the causa

brought out

When an autogenous succine produces no creation the organisms are of the non pathogenic or only slightly pathogenic variety. When an autogenous succine alone causes a rection it assaulty contains colon banelli enterococci or stephylococci. When an autogenous vaccine produces in reaction but a stock gonococce vaccine produces a reaction the patient is suitly suffering clinically from a gonococcie in fection. When an autogenous vaccine together with rection. When an autogenous vaccine produces a reaction and the strengthen of the control of t

orthocal medicitis
On the basis of expariments on patients the
authors advance the hypothesis that the general
reaction is dependent not only on the use of the
proper vaccine but also on the point of injection
(that is to as the portial of entire of the original
infection). This theory seems well supported by
several case histories and adds another method of
confirming the choice of a given vaccine is injected into
the terrive or one of the vulvier glink is and a general
reaction follows the originism from which the vaccine was reade may be regarded as the cause of the

meetities there classify metities into that of reconorigin and that of long standing. The former in cludes the pure gonococcie metities metities due to metrococcus so to altius coll occurring in wone suffering from chronic intestinal disorders (an important group) and pureprial infections caused by streptococci staphylococci gonococci or the colonbacillus. The old cases are due to one of the same organizms which does not be to the former of the color of the color of the color of the color group. With the classification in much it is proteed to undertake an etiotropic treatment which promise success in most cases. Wheat I Dec (as at With

Capecchi E. Acute Complete Retention of Urine and Delivery of a Large Fibromy orma (Riten ione urinaria acuta completa e contempo ante parto di un voluminoso fibro mioma). Cl n est f. 1918 xxx 654.

The case reported was that of a woman forty four years of age who had three normal delt ress in October 1005 she began to have a more copious menstrual flow than usual a discharge of sero singunolent fluid between the periods and a feeling of weight in the lumbar region. The symptoms in

creased and on November 15 1926 she suddenly became unable to urmate. Thereafter catheteriza iron was necessary and there was pain which in creased until 12 had the character of labor pain.

On the patients admission to the ho pital on November 19, 1976 extinuation showed a bard out of fibromy on the size of the head of a fetts which occupied the vagins. Under either anasthesis it was delicered by catching it with Museus foreign and groung it a ordining motion. It was attache life and groung it as ordining motion. It was attache life to the control of the size of the control of the size of the control of the size of the control of the cont

Retention of unne is not an infrequent complication of fibrown of the uterus but it is generally in complete. The pressure of the immer and its traction on the urefer cause disturbances of the crucion of the bladder and pelvia until some added factor probably mensional congestion exceeds the interpretable of tolerance and unnation becomes impossible. The contractite capacity of the uterus musculature can be utilized in the removal of a tumor as well as in the delivery of a feture.

Viana O The Early Diagnosis of Cancer of the Uterus by Means of Smears (La diagnosi precee del cancro uteruso mediante lo striscio) C n el 1 5018 xx 181

As there is danger of stimulating the growth of cancer by excessing tissue for examination Babes has recommended making the diagnosis from smears According to Babés technique the cervix is suped with gauze and the material taken with a pla inkm loop fixed with alcohol and stained Canter is characterized by penetration of epithelium into the deep tissues and atypical forms of epithelial cells The latter appear first and can be cen in smears Babes cons ders the smear method a limited biopis In examinations of twenty cases by this method he found that in ample erosions erathrocytes fre dominate and there are few cells. In cancer the protoplasm of the cells is g eatly reduced and often nothing is left but the nucleus. Somet mes there is more protoplasm and the cells have various forms The nuclei may be tu form mulberry shaped bilobulated or multilobulated. The greatest change in the cells is the increase in their size they are often true grant cells. The nuclear chromatia mas be in the form of oval semilarar or angular granules of varying size. The nucleoli also vary in number size and staining capacity Babés says that from these characteristics the sha nosis of cancer of the cervit can be made from sm ar in a large number of cases

The author has examined tache case by the smear method and includes in his article photometrographs which in many rounts confern the many rounts confern the many rounts confern the many rounts of the many authority of the many substantial confernation by the property and the case of cancer the findings in the smears were confirmed by those of business of cancer the findings in the smears were confirmed by those of business of the smears were confirmed by those of business of the smears were confirmed by those of business of the smears were confirmed by the order of the ord

Gellhorn (Syphilis and Cancer of the Uterus

The author discusses, first the differential diagnosis between syphilis and cancer of the cerviv. A number of case histones are given to illustrate the mistakes in diagnosis. The differentiation is not always easy in the cases of young patients syphilis should be thought of first. Even a definite history of syphilis.

does not exclude cancer Except in cases with ulcerated gummata sponta neous bleeding is less frequent in syphiles than in cancer but on touch cancer bleeds more easily than a suphilitic lesion. I ain on palpation seems to be gr ater in primary and secondary syphilis than in the early stages of cancer A marked general reaction is produced early by syphilis but occurs late in cancer The consistency of the new growth is a valuable diag nostic point A syphilitic lesion is hard in the depths because of the infiltration. In cancer the finger can always break through into deeper layers to solt spongy tissue Yellowish discoloration relieved by a reddish undertone is pathognomonic of syphilis If in a suspicious case the affection is separated from the external os by a zone of normal mucosa the diag nosis of syphilis may be made safely Microscopic examination settles the diagnosis in most cases Spi rothetes are usually recoverable from chancres al ways from secondary ulcers but rarely from gum mata Other affections of the cers in should be ex cluded In doubtful cases anti syphilis treatment

should be given. When cancer occurs in a syphilities it will always set the vulnerable spots which have already been incloved by syphilis. Leucoplakis is almost always due to sphilis and may sooner or later develop into cancer. The direct transition of asphilis into cancer is tree.

Alamanni R. Carcinoma of the Uterus After the Menopause (Osservazioni sul caremonia utenno oltre la menopausa). Riv. lal. da ginec. 928 vii.

The author has studied his cases of carcinoma developing after the cessation of menstruation to determine whether such carcinomata are different in nature and course from those developing during active sexual life He found that carcinomala at the later age are somewhat less mairgnant and their clinical course is somewhat different. The most marked symptom is a yellowish or whitish discharge the cortous hamorrhage caused by carcinoma de veloping at a earlier age is rare. In a few cases (1 8 per cent) the first symptom was abdominosacral pain In some of them the patient had noted a dis charge for only a little while but when examination was made the tumor had already passed the limits of operability Brief histories are given of two such cases in one of which the patient had noted a dis charge for only five days before she entered the ho pital and in the other of which a discharge had been noted for only a month Sometimes however the period is very long. Two other cases are reported

in which the patient had had a discharge for five years The average duration of the disease was from three

to four years whereas in women in active sexual life the average duration ranges from a few months to a veri. Women in the menopause do not show so much phisical deterioration or cachetia as younger women. Apparently the older organism is more resistant to the diffusion of the cancerous process and less sensitive to rist toxins. The older women frequently die from intercurrent disease rather than from the cancer itself.

Of the author's cases \$5.22 per cent were un operable whereas the incidence of inoperability in volunger women is 50 per cent. The higher incidence of inoperability after the menopause is probably due to the midliness of the symptoms which delays the diagnosis. Resurrence is less frequent in the late cases at developed in only 10 per cent of the author's cases as contrasted with 10 per cent of the exerced to souncer women reported by Faure.

Alsmann obtained good immediate results in fifty one (86 44 per cent) of his fifty nine cases. The operative mortality was 1, 25 per cent. Eighteen of the patients are now living with no signs of recurrence after a maximum time of eight years and a minimum time of they exers.

Alamanni states that simple total abdominal histerectomy is as effective in these cases as Wertherm's operation and less dangerous

He attributes the decrease in the malignancy, of carnooma after the menopause to functional changes taking place at model age particularly, the decrease in the activity of the ovary and chromaffin system. It is not due to the histological type of the cancer as the lessons in most of his cress were pavement cell epichehomata which are not particularly being cancers.

AURING MORAN M.D.

Schneidewind O A Case of Primary Polymor phous Sartoma of the Urerus with Various Metastases (Un caso de sarcoma primitivo pili morio de útero con metástasis diver as) Semani et de 1828 XXV XX

The patient whose case is reported was a woman fifty four vears of age who was admitted to the bospital with a diagnosis of fibroma of the uterus which bad undergone malignant degeneration. Subtotal bysterectomy and bilateral outphorosalpin rectoms were performed. Death resulted.

gectoms were performed. Death resulted Autopas showed that the lower part of the uterus was changed into a yellowish white mass with slight uteration. In the ascending colon there was an uterated summer the use of a mandarm orange which the state of the state of the state of the lower than the threat there was a hard white the state of the s

posterior angles of the first 4 ribs and the antenor angles of the first 2 ribs on the right side had been invaded by the tumor Examination revealed also fatty degeneration of the hver congestion and orderna of the tungs and atheroma of the aorta

The tumor was a spundle celled sarcoma of the uterus evendently originating from malignant de generation of a fibroms. Signs of malignance were noted for only a few months before the patient a dimission to the hospital. Sarcoma of the netres is a dimission to the hospital. Sarcom and the netres of the same and the s

ADNEXAL AND PERIUTERINE CONDITIONS

Orr J L An Unusual Case of Tubo Ovarion In guinal Hernia Glasgow if J 1929 cm 21

The case reported was that of a gril surteen years of age who had had a pamful inguinal herma on the left side for twelve months. The pain was most se vere during menateuation. At operation the hermal sac was found to contain the overy and the distalpart of the fallopian tube. The proximal portion of the tube ended bindly.

one time ended difficult of the recognition of the futures and gives a hirel account of the embryology of the intensity of the internal genital organs in the female. Thail mal formations have been signified to an error in development and to fetal peritonitis. Neither theory is entirely satisfactory, but the developmental theory seems to be the more acceptable.

T FLOYD BELL M D

Callahan W. P. Schiltz F. H. and Hellwig C. A. Primary Carcinoma of the Fallopian Tubes Associated with Tuberculosis. Surg. Gynec &

Ob 1 1939 xlvin 14

The simultaneous occurrence of primary carcino
ma and tuberculosis of the fallopian tubes is exceed
ingly rare

The diagnosis of tuberculosis of the tubes is difficult to make chincilly because of the absence of ditinctive chincal symptoms. Frequently 11 impossible without increoscopic examination. The condition is most common between the ages of swestly and to the superculture of the superculture of the supertion is most common between the ages of swestly and to the superculture of the superculture of the supertion is superculture. The superculture of the supertion is superculture of the supersuperculture of the superculture of the supersuperculture of the superculture of the superculture of the supersuperculture of the superculture of the superculture of the supersuperculture of the superculture of the superc

From twelve to forty eight hours before the menstrual flow pain and tenderness are noted in the lower part of the abdomen. As a rule there is a shight levation of the temperature toward evening most cases pelvic examination reveals induration in the formers faintion of the error and marked addesoration and the state of the error and marked addesoration and the state of the error and the state of the state of the state of the error and the state of the state of the state of the error and the state of t The onset is unsidious In most cases there is a history of pleurisy and enlarged glands A primary tu berculous lesson elsewhere climinates gonococcic and streptococcic salpingitis A definite diagnosis may sometimes be made from curetted material

Opinions vary as to the advisability of surgical treatment although the incidence of permanent cure in surgically treated cases has been reported as 66

per cent

Primary carcinoma of the tubes occurs most frequently in the late preclinariere or early postel macteric period between the fortieth and fifty fifth year. The most constant symptoms are pain a docharge irregulantly of menstruation and eramp-like continuous or infermitent pain in the hypogastic thac or lumbar region on the same side which may radiate to the sacreum the lower extremilies the rectum or the engastrum and is sometimes relieved by a profituse discharge from the vagina. The distinct of the proposition of the same side of the proposition of the prop

Physical examination reveals a mass in the pouch of Douglas or on one or both sides. The mass varies in size from that of an egg to that of a man s head. The results of surgery are often poor because the operation is too conservative, the uterus or ovaries being left or because tubal contents escaine into the

abdominal cavity

Primary carcinoma associated with tuberculous of the tubes has been found most frequently in mome between the ages of thirty five and fifty two pears in most of the reported cases the pathological picture suggested that the inflammatory process suffered that the inflammatory process in dated the neoplastic growth. Some investigation have assumed a direct relationship between the stone but it is generally helicited that one is an acci dental complication of the other. Early radical oper action gives the only chance of cure

MACINES P URVES M D

Schugt P Experimental Studies on Injury to Offspring from Roenfeen Irradiation (Epermentelle Untersuchungen under Schneidung d'r Nachkommen durch Roenfeenstrahlen) Sträblen therapie 1928 zwin 546

Sixty mice free from inbreeding were irradulted with 140 70 54 42 27 21 14 and 9 reentgen units from a Marian Coolings tube (180 k 2 ma /) mm. Ou plus 3 mm. Al) and fifty three mice were reradulted with a soft tube (100 k 2 ma 1 mm. Al). After irradultion they were paired in every MI.) After irradultion they were paired in every

possible combination in the different generations. From the numerous tables and combinations for which the original article must be consider it we wident that the translation caused injuries of the original article must be considered in the original control of the control of

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Lvon E C Jr Anamia in Late Presnancy J Am 11 Ass 1928 xcll 11

This article is based on blood counts and hamo globin determinations made during the third trimes ter of pregnancy in the cases of 200 women delivered is the obstetrical division of the Woman's Hospital New York In the 177 cases in which the determina tions were made at term the average harmoglobin was 75 3 per cent Fifty seven (32 a per cent) of these 177 patients reached term with a hæmoglobin value of 70 per cent or less Parity and townia did

not materially affect the degree of the anamia Of a control series of 100 non pregnant women with retroversion of the uterus a similar percentage were found to have a hamoglobin value of 70 per

cent or less on admission to the surgical wards Of 42 women who had repeated blood counts dur ing the third trimester of pregnancy 16 (38 per cent) showed a gun and so (47 6 per cent) a fall in the hamoglobin CARL H DAVIS M D

Erans W Severe Anzemia of Pregnancy and the Puerperium Lancel 1929 cexvi 14

Severe ansemia of pregnancy and the puerpersum is uncommon Osler attributed it to hamolytic agents produced in the changed metabolism of pregnancy or the kataholism of the postpartum state Rowland snumed that under normal conditions a syncytial hamolysin is formed in the ectodermal cells of the thorion during pregnancy and that later an antihæ molysin is found in the maternal blood. He ascribed Persistent anamia to failure of the formation of the anthemolysin Smith considered a deficiency of hy drochloric acid a probably etiological factor and as treatment recommended the administration of by drochloric acid Other conditions which have been suggested as predisposing to animita in pregnancy and the puerperium are achlorhydria and general de bility before pregnancy syphilis and a predisposi tion to anamia The anamia of pregnancy simulates addisonian

anamia heing characterized by a great reduction in the erythrocytes the presence of primitive red cells an increase in the reticulocyte count slight splenic enlargement and a lavorable response to liver therapy

When once established the condition tends to recur in later pregnancies and in each succeeding pregnancy is more pronounced and earlier in onset Premature labor is the rule

It is important to recognize the disease in its initial stages and to begin treatment before labor. The prognosis is good the response to liver therapy being almost immediate MACNUS P URNES M D

Westman A Two Cases of Necrosis of the Renal Cortex in the Toxicosis of Pregnancy abst el eynec Scand 1928 vii 235

The author describes the renal changes in two

cases of ecfampsism In one of them he found cor tical necrosis caused by thrombosis of vessels fol lowed by infarction and in the other a nephrosis associated with necrosis

Falls F H The Diagnosis of Fetal Deformities in Ditero Am J Obst & Greec 1028 XV1 801

The diagnosis of fetal deformity is very important from the standpoint of both the mother and the child When the letus is markedly deformed-for example an anencephalic monster-the management of the case may be planned solely in the interests of the mother

The methods of diagnosing fetal deformity include palpation percussion auscultation and \ ray examination By means of the \ ray a certain diagnosis can be made in practically every case after the seventh month

Hydrammos developing about the seventh month and associated with a permanent increase of the uterine tension and easy ballottement is suggestive of fetal abnormality but is not constant. Inability definitely to outline the fetal head suggests anen cephaly while abnormal size or consistency of the fetal head indicates hydrocephalus In cases of anencephaly considerable difficulty is experienced in differentiating between the fetal poles by pal pation and when the presentation is cephalic a soft meningocele surrounded by a bony ring may be felt on vaginal examination with the finger inside

When there is marked hydrampios the fetal heart tones are head only faintly or not at all During pregnancy they are usually normal or rapid but duting labor they are often slow and irregular or abnormally fast. In cases of anencephaly with a cephalic presentation they are frequently heard unusually low in the abdomen during labor and are very mregular

Abnormally active movements of an aneacephalic monster may become convulsive if pressure is made on the head HARVEY B MATTHEWS M D

Slegert F The Problem of the Cervical Placenta (Zur Frage der Cer 1x placenta) Zischr f Gebu ish # Gyngek 1028 XCIN 741

There is still a difference of opinion as to the fune tional significance of the isthmus which is bounded above by the anatomical internal os and below by the histological internal os Pankow emphasized the importance of the isthmus as a third segment of the uterus Zangemeister believed the isthmus to be of

the cervix

no obstetrical significance but of decided importance in the etiology of placenta prævia

It has not been proved that the development of the 1sthmus finds its physiological boundary at the

histological internal os

The author discusses at length the question as to whether in the formation of the cervical placenta the 1sthmus remains distinct or it is unnecessary to assume a division of the uterus into three parts from the standpoint of function A primary insertion and complete development of the ovum in the cervix of the uterus has been described only by Tarmer and Devraigne Bar A cervical placenta may develop from or over an isthmic placents. The author describes in detail a cervical placenta in a twenty seven year-old para iv The first severe hemorrhage began with labor Casarean section and manual removal of the placenta were done. The placenta had a corpus portion measuring 15 by 15 cm a ring shaped lobe adherent in the lower uterine see ment and a tongue like process in the cervical canal extending nearly to the external os The removal of the placenta was accomplished quite easily. It is assumed that in this case the implantation in the cervix occurred from a primary corpus placenta by means of a reflex placenta

The depth of the placental attachment to the cervical wall depends upon the extent and degree of the previous development of the cervical canal Not every cervical placenta is a placenta accreta

It is difficult to say whether the histological in ternal os can he differentiated histologically in the development of a cervical placenta as the destrue tion of the glands in the region of the placental tissue usually makes the differentiation of the cervical and isthmic glands impossible

The decidual reaction has been described very differently and presents no constant picture. The most detailed description of this reaction has been given in reports of the relatively uncommon cases of wall splitting cervical placenta (Kermauner keause Zeugemeister Tiegel) It is generally be heved that when the placents is situated entirely below the internal os the decidual reaction of the mucosa of the corpus is surprisingly slight Histo logical examination of the mucosa permits a differ entiation of the isthmus and cervix only when the placenta does not extend below the histological in ternal os

The type of placental insertion all o varies Pla centa accreta is frequently due merely to deficiency or absence of a decidual reaction in the uterine out let The dissecting type of growth of the cervical placenta is peculiar in that by means of it the cervical wall is separated into two layers placental tissue does not penetrate through the mucosa into the muscle wall but enters the cervical wall from above in such a nay that the placents is covered on one side by a layer of muscle and on the other side by a layer of muscle and mucosa,

Even though the development of the ; thmus dur ing pregnancy is to he regarded as physiological

there still remains the question as to how the lower margin of the isthmus the histological internal of reacts to this developmental process. This is not explained by a sphincter action of the wall muscle hindering the possibility of growth of the uterus Nor does the gland picture the decidual reaction or the character or insertion of the placenta prove that in the massion of the cervical canal by placental tissue from the 1sthmus the boundary of the histological internal os is protected. The entrance of the placenta into the cervix may be due to active growth of the placenta or to a passive sinking of the placental lobe covering the internal os into the dilating or already dilated cervit

The primary isthmic placenta comes into contact with the mucosa of the cervix earlier and more er tensively the more defective the closure of the cervix Extrachorial development of the placenta in the cervix is favored by a preformed space. The sinking of a placental lobule into the dilated cervis is easier when the development of the cervical lobule as followed in the last months of the preg nancy by progressive dilatation of the cervical canal In such cases the danger of hamorrhage is relatively

slight As important as the division of the uterus into three parts may be in the etiology of placents prævia it does not explain the histological and functional cervical placenta. The latter is seldom a covering lobe as a rule it is an offshoot Therefore it es not a placenta prævia but a placenta lateralis cervacabs

Browne F J and Dodds G II Further Experi mental Observations on the Etiology of Acci dental Ilæmorrhage and Placental Infarction J Obst & Gynac B t Emp 1928 xxxv 66

In experiments on animals the authors found that the chief predisposing cause of accidental hamor thage is chronic nephritis. In the presence of chronic mephritis antepartum hamorrhage could be precipi tated on the twentieth day by producing an acute exacerbation of the nephritic condition by injecting sodium oxalate uranium nitrate or the hacilius p) ocyaneus Three animals with chronic nephritis had a spontaneous antepartum hemorrhage in the second half of pregnancy In the cases of such animals albu min may be absent from the urine between pregnan eses and during the early months of pregnancy but appears during the latter half of pregnancy and before the onset of spontaneous hamorrhage This observation seems to have an important bearing on the question of so called recurring toxamias of preg nancy The cause of the hæmorrhage is probably the failure of the kidney to excrete the toxins which accumulate in the circulation. The liver function remains normal in animals suffering from experimen tally produced nephritis As the blood cultures are found to be sterile during the bleeding it is evident that microorganisms have no part in the etiology of accidental harmorrhage

ABRAHAM A BRAUER M D

LABOR AND ITS COMPLICATIONS

Esmann 1 Induced Premature Labor In Sixty
fire Cases of Contracted Palis (Sur 65 cas
decouchement prématuré provoqué dan les bas
sins rétrées) Griée el obsi 1948 xun 401

Among more than 7 200 deliveries the author has induced premature lahor in 65 cases of contracted pelvis In the first group 01 to cases which were seen in the period from 1905 to 1912 he used a Tarnier balloon. Five of the inlants lived and 5 were born dead or died soon after burth. In a cases.

there was a breech presentation

means a treed presentation. The before in the section attributed the lenguacy of the beginning attributed the lenguacy. Therefore in the 50 other cases he compto a bining arms tents. After disting the cerves with a metal distor by Hegar's method he introduced from 2 to 4 thick laminaria intel placed a source of todofrom gaute in front of the esteral or and tamponed the wagma with each of the selection. When the tampon and the tents were withdraw after from eighteen to twenty four hours distintion of the os and rupture of the membranes are usually accomplished easily. In a few cases it sharetessary to repeat the introduction of the tents.

B, this procedure a beginning of labor is brought abo 'before the membranes rupture In 10 of the cases revened labor was terminated within twenty lour hours and in 21 within twelve hours. In 1 case the case is the case of the case of

forceps until ten days after the first introduction of the laminaria tents. The chifd fixed

In the 55 deliveries in the second group of cases there were 5 dead infants. All of them were delivered

in the first 27 cases

tion exestean section should be done

In the author's practice there are not many cases of marked pelve deforms the serves but there are a considerable number of cases of generally contracted pelves, well formed but small measuring lows 1 to 2 cm less in diameter than the normal pelvis In such cases and in cases with mechanical disproper ion between the size of the pelvi and that of the head because of almorand size of the head the induction of labor is indicated. This is best done in the thrity sixth or thrity seventh week of pregnancy at which time the child sevel developed and viable

Rizzacasa N A Case of Spina Bifida Occulta and Rupture of the Symphysis of the Publis (Su an case di spina binda occulta e sulla ottura della sinfisi pubica) Cli osti 1028 xxx 504

The patient whose case is reported was a primip at a thirty years of age Examination showed a

generally contracted non rachitic pelvis of the first degree After many hours of labor with complete distation of the os the author applied forceps be cause of becoming fever and weakening of the fetal heart sounds. Following several meffective tractions he found that the fetal heart was no longer beating and decided to perform a craniotomy Before he undertook the craniotomy however his assistant made another attempt to effect delivery with the forcers. In a lateral movement, the anterior arch of the pelvis suddenly vielded and the child's head was immediately delivered. As the patient was anxis thetized she experienced no pain. The symphysis remained intact but there was a subcutaneous rupture of the pubis just to the right of it. The child's head was normal in size but as there was complete ossification moulding had been impossible

complete ossification moulding had been impossible.

For a few days after delivery the patient was unable to move her right leg but three weeks later.

she had no symptoms of any kind

After about three years she became pregnant again and was delivered of a normal child spontaneously at term

Reentgen examination of the patient showed in addition to the generally contracted pelvis an occult spina binda. Evidently infantilism of the pelvis had contributed to the rupture of the os pubis AUPER OF VIORGES M.D.

Convefure A Portes L and Digonnet L Late
Postpartum flamorrhages Indications for
Their Treatment by Immediate Hysterectomy

(Les hémorragies tardives des suites de couches indications de leur traitement par l'hystérectomie d'emblée). Gynée et obst. 1028 xviii 170.

It has generally been supposed that postpartum hemorrbages are always due to retention of a frag ment of placenta in the uterus. This honever is not true. Among twenty successive cales of post partum hemorrhage observed by the authors retained placenta was found in only eleven in nine the uterus was completely empty.

The seriousness of postpartum hamorrhage whether there is partial retention of placenta or not depends not so much on the amount of the ham orrhage as on the associated infection of the uterus The uterme infection may remain latent until the hemming of the hamorrhage and may he dissemi nated by exploration or curettage. In the five cases in the authors senes in which no intra uterine operation or examination were performed there were no deaths whereas in the ten cases in which curet tage was done there were six deaths. Retained placenta was found in seven of the ten cases treated hy curettage. In the seven cases with retained placenta which were treated by curettage there were three recoveries (one with bilateral phienitis of the leg) and four deaths from septicæmia (one in spite of vaginal hysterectomy) In the three cases treated by curettage in which no retention of placenta were found there were two deaths-one from another hamorrhage and one from septicamia no obstetrical significance but of decided importance in the etiology of placenta prævia It has not been proved that the development of

the 1sthmus finds its physiological boundary at the histological internal os

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ABRAHAM A BRAUER M D

lating one hour) although the pelvis was con tracted For the first few days the infant nursed regularly Then its temperature rose and there ap peared within a few hours a hulging of the lontanelle trismus stiffness of the neck the Kernig sign and contracture of the lower extremities in extension Somal puncture performed several times withdrew a yellow fluid which was under slightly increased pressure The fluid contained numerous erythro otes As the mother presented a slightly positive Bassermann reaction anti syphilis treatment of the mant was instituted Purpuric spots appeared on the extremities and death occurred on the tenth day Autopsy showed a purely meningeal harmorrhage and hamorrhagic foci in the liver kidneys and

Case 2 The patient was a primipara twenty five years old with a contracted pelvis. A cassirean section was performed under spinal anæsthesia. The mant was slow to breathe Lumbar puncture evacuated a bloody fluid. On the third day the spinal fluid was zanthochromic and still under in creased tension Generalized convulsions developed and death occurred on the twenty sixth day

Case 3 The patient was a para is with a con

tracted pelvis Labor was induced two weeks before

term On delivery the infant breathed but did not ery In the left temporonarietal region there was a slight swelling This swelling increased in volume and the infant was seized with contractures of the legs in extreme fletion Lumbar puncture evacuated a bloody fluid Death occurred two days later At autonsy a purely meningeal hamorrhage was found

Case 4 The patient was a woman twenty two years old at term The pelvis was slightly con tracted Premature rupture of the membranes occurred The total duration of lahor was twelve hours and thirty minutes and the duration of the second stage one hour and thirty minutes. Resuscitation of the infant was difficult Death oc curred on the second day. Autopsy showed only marked hypermmia of the brain and other viscera

From these case histories the following con-

clusions are drawn

Although intracranial injury is known to be pro duced by forceps operations, these operations are not always responsible Predisposing causes of hamor rhage such as prematurity alcoholism in the parents and especially syphilis must be considered. In certain cases the meningeal hamorrhage is merely the dominating manifestation of a hamorrhagic dys crasia. ALBERT F DE GROAT M D

in one of the two cases of this group without placental retention

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The authors conclude that when a detached piece of placenta is found in the vagina cervix or uterus it should be removed digitally if possible but if it is adherent hysterectomy should be performed at once without preliminary curettage. Hysterectomy should be performed also in cases in which the uterus is empty if the fever which follows the examination does not recede within forty-eight hours or if another hæmorrhage occurs Abdominal hysterectamy is best because vaginal hysterectomy is difficult tech nically after delivery AUDREY G. MORGAN M D.

PUERPERIUM AND ITS COMPLICATIONS

Autofage Grave Puerperal Infections Cured by Hysterectomy (Infections puerpérales graves guéries par hystérectomies) Bull Soc d'obst et de

gynée de Par 1928 xvai 723 Autefage reports a case of postabortum infection and a case of postpartum infection in which hyster ectomy followed by Mikuliez drainage resulted in prompt recovery

In the author's counton hystereetomy is indicated in nuerperal infection when after an abortion the temperature remains high and chills persist in spite of complete evacuation of the uterus and when a subacute infection occurs after labor with marked systemic symptoms and appreciable lesions of the

uterus and adnexa Surgreal treatment has no place in the hyperacute

postpartum infections without localized symptoms The operation of choice is abdominal hysterectomy rather than vaginal hysterectomy principally be cause the former is better performed by most sur geons The use of the Mikulicz drain is of great importance. ALBERT F DE GROAT M D

NEWBORN

The True Causes of Fatal Meningeal Pigeaud H Hæmorrhage in the Newborn (Les causes réelles des hémotragies meningées mortelles chez le nouveau nes) Gynec et obst 1928 xvns 334

A study of the present day literature dealing with meningeal hamorrhages in newborn infants indicates that the majority of those writing on the subject attribute the condition almost exclusively to ob The conclusions drawn in this stetrical trauma

article are entirely to the contrary One of the first obstetricians to recognize that other causes might contribute to the production of intracranial hamorrhages was Couvelaire Couve laire noted the facility with which hamorrhages are produced in premature and congenitally syphilitic infants About the same time Lequeux showed that the severe hamorrhages of the newborn may be the result of hereditary infectious or toxic conditions the most important being alcoholism lead poisoning and especially syphilis in the parents Keene Demelin Warwick and Ballantyne have reported numerous cases of meningeal hamorrhage following normal labors or even casarean sections in which there was minimal trauma to the infant

In fifty autopsies Pigeaud found thirteen cases of meningeal hamorrhage Six of the labors in these thirteen cases were spontaneous and entirely normal five were normal up to the moment that the con dition of the fetus necessitated delivery (low or mid forceps without trauma) and two were rendered

difficult by mechanical causes

Autopsies showed lesions of congenital syphilis in four cases In four others the autopsy findings to gether with the clinical evidence made the diagnosis of syphilis practically certain. In one case death seemed due to an intoxication (severe nephritis in the mother) and in another to an acute infection (acute inflammatory lesions of the lungs meninges and kidneys) In three cases death could be attn buted only to the traumatism of lahor. In two delivery was effected by forceps. In one the delivery was difficult. The remaining case was a difficult breech extraction

In the course of autopsies performed on fetuses of four oe five months born with the membranes intact (that is to say without trauma) meningeal hamor

rhages were found six times From his studies the author draws the following

1 Purely traumatic intracranial hemorrhages occur in the newborn but are rare. In cases in which the labor and the fetus were normal they have not been demonstrated

2 The majority of fatal meningeal hamorrhages have an etiology that is essentially medical-as a rule a hereditary defect such as a toxemia or a chronic infection usually ayphilis Rarely the cause is an acute infection

3 Obstetrical trauma generally plays only an accessory rôle It brings into evidence congenital fessons which alone are capable of producing men ALBERT F DE GROAT M D mgeal hemorrbage

Andérodeus and Dervillée Several Cases of Menin geat Hamorrhage of the Newborn Following Spontaneous Delivery (Sur plusieurs cas d hemor

ragie mémingée du nouveau né à la suite d accouche ments spontanés) Bull Soc d'obst et de gynte de

Par 19 3 XVII 693

When a labor is complicated by dystocia necessitat ing the application of forceps and when the infant presents signs of meningeal hamorrhage there is a natural tendency to consider the obstetrical opera tion as the cause of the hamorrhage. This is of course an exaggeration. The authors report four cases in which meningeal hamorrhage occurred in the course of labors terminating spontaneously

Case I The patient was a twenty year-old pri mipara at term Labor was normal (second stage

In a series of sixteen patients with definitely ab normal unnary findings and definite impairment of renal function the blood urea averaged 150 mgm two hours after the ingestion of the urea and there were individual increases to more than 18 mgm At the end of fourteen hours the average residual was 10 3 mgm In about half of the cases there was a polyuna of over 750 c.em. The investion of the area did not influence the clinical condition or cause discomfort. In two cases of uraemia the blood urea continued to rise during the fourteen hour period an observation demonstrating that the kidneys were unable to eliminate not only the uses given but also the urea produced by catabolism of the tissues la these cases a relative objects a developed

The determinations were made also in the cases of thuty-one patients with pathological unmary findings but with renal function that according to the usual tests was normal. In cases of acute and chronic nephritis early and mild infections and obstructions there was moderate retention after the

fourteen hour period

In a case of compensated heart lesson and in five cases of hypertension with negative urinary findings the results were normal. In henatic disease with sundice and ascites and in four cases of pernicious suzma there was moderate retention

CLAUDE D PICKRELL M D

Mayrs E B Renal Function in Unilateral Dis orders of the kidney Best M J 1928 11 1928

From a study of about fifty cases Mayrs con cludes that chemical analysis of the urine is not of much aid in the differential diagnosis of unilateral kidney disorders because various pathological condi tions may have similar effects on renal function Honever it seldom fails to show which kidney is affected.

The chief value of chemical analysis of the urine her not in revealing the presence of calculus or tubercle but in demonstrating the degree of injury to the kidney cells. The most important problem is

to distinguish the reflex diuresis from loss of eon centrating power due to inefficiency of the Lidney spatishum The kidney which is taken as a normal control may not be normal In most cases the blood urea is a safe guide THOMAS F FINEGAN M D

Fey B The Results of Twelve Operations for the Painful Syndrome of Hydronephrosis Preponderant Rôle of Abnormal Arteries (Résultats de douze interventions pour syndrome

douloureux d hydronéphrose Rôle prépondérant des artères anormales) Arch ural de la clin de 1 ch r 1028 VI 193

The twelve operations reviewed were performed for pain indicating intermittent hydronephrosis The author helieves that surgery is justified by this in dication alone because a conservative operation is possible only if it is undertaken early

I hen the syndrome is not definite complementary indications must be sought Pyelography may show

The degree of dilatation This is of importance only if it is well advanced as pyeloscopy has demon strated that minor dilatations may be purely phy stological

2 A deformity of the renal pelvis due to an ab normal artery This may consist of a simple nick in the shadow a clear space at the juncture of the meter and pelvis or a spiral shadow due to rolling of the ureter over the abnormal artery These changes are seen however only when the dilatation

is well established Pyelography is therefore of no value in cases that can be benefited by a conservative operation but nyeloscopy gives information of importance in early cases In only one of the author's cases did pyeloscopy prove unreliable. In two cases it revealed a hyper tonic pelvis and irregular contractions with a short exacuation time. In three cases, the evacuation time was retarded. In six cases, there was complete or nearly complete retention. The importance of the interpretation of these findings is emphasized Papin and the author have expressed the opinion that complete retention aignifies a complete and permanent loss of motility and for cases with complete retention they have advised nephrectomy However the author's present attitude is less documatic because pyeloscopy has shown that the loss of motility of the renal pelvis may be only temporary At the time of examination there may be only an inhibition of the pelvic contractions After a nephrectomy for com plete retention the kidney has been observed to contract spontaneously and rhy thmically Chevassu has made the same observation in two cases. On one occasion the author saw contractions appear after section of an abnormal artery and was thereby led to preserve the Lidney

In the treatment of hydronephrosis the first sten is exposure and exploration of the kidney Judging from the literature and the author s own experience (eight of the twelve cases reviewed) an abnormally placed artery is usually found. This has been described as a vascular band an inferior polar artery or an abnormal artery. There are also ab normal arteries of the hilum. In one case the ureter was kinked over an ovarian arteri

As the usual mode of approach disturbs the ana tomical relations so that any kinks of the ureter may entirely disappear the author employs an anterior

extraperatoneal route (Bazy Chevassu Legueu) which allows inspection of the kidney without dis turbing it or its pedicle. When the nature of the lesson has been determined the decision between nephrectomy and a conservative operation must be made

The indications for nephrectomy are loss of the secretory power of the kidney revealed by a thinning of the renal parenchyma and loss of the excretory function The latter is difficult to judge. As an indication of loss of motility dilatation of the ureter is of more value than dilatation of the pelvis. The best procedure seems to be direct stimulation to pro voke contraction of the pelvis after the constricting

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Hicks J B Adenoma of the Adrenal Cortex New Lingland J M d 1928 CREIX 1140

Adenoma of the adrenal cortex is a beingn epithe hal growth which is quite rare. According to Gh son it is found about once in from 1000 to 12000 patients admitted to a general hospital. As a rule it is discovered only at autopsy although in a considerable number of ca es it produces a mytoms. It may be mystical for a life.

may be mistaken for a hypernephroma
One of the most interesting phenomena associated

One of the most interesting phenomena associated with adenoma of the adrenat cortex is writing. The climical picture of virilism has been recognized since ancient times. Hippocrates described two women with virilism bodies resembling the male and

with hair

All adenomata of the adrenal cortex discovered by clinical examination have occurred in children and women. Symptomless adenomata have been found in males at autopsy

The tumors range in size from nodules to large masses. In their microscopic structure they vary from an almost exact reproduction of cortical tissue to gland like spaces or alweoli lined with cylindrical or cuboidal cells. As adenomata they do not metas tasize but they prohably often undergo mulignant.

change

In explanation of virilism several theories have been advanced It is generally accepted that there is an internal secretion from the growth which in women tends to diminish the female and increase the male primary and secondary sexual characteris ties. According to Krabbe this effect is due to the origin of the tumor from sex glands of maxiculina

type
The most common signs in females are those of thimished primary and secondary sexual characteristics with a change toward the male 1 to growth of a heard the growth of hair on the cless and extremities and male distribution of the public him. The change may be of such a degree as to sign exceptional of the external general properties of the common section of the case of the common section of the external general organism and in adult males impotency. A rare sign is pigmentation of the skim.

The condition is to be suspected when in the case of a patient showing signs of virilsm a supragnal mass is demonstrated by physical examination evidence pyelography or surgical exploration. In young persons the symptoms are usually marked but in a large percentage of cases the dispenses can be made only after microscopical examination of the tumor tissue.

The best treatment so far known is surgical re moyal of the tumor. In young persons the operative mortality is high but the benefits of operation are so great that surgery should be tried. Early surgical intervention is advisable also to prevent malignant changes in the benign tumor.

The author reports the case of a woman forty cupit vessel age in whom a main in the left upper quadrant of the abdomen was discovered by two physicans. On the abdomen was discovered by two physicans of the abdomen was discovered by two physicans of the abdomen was a not enlarged spleen and the other processes was an enlarged spleen and the other processes was an enlarged spleen but the prolograms and findings at operation suggested that it was a large buyer phroma. The pathological examination alone settled the diagnosts and prognoss. There were no specified virulism but the skin showed a quite marked generalized yellowsh brown pagmentation. The pig mentation disappeared completely soon after removal of the tumor. J Faw Kinkanger MD

King E S The Ures Tolerance Test An Index of Remal Function Arch Int Med 1928 xl: 877

In the author's investigation of the value of the concentration of ures in the blood as an index of renal function the authect was kept in hed for a period of fourteen hours and during that time was allowed soo cem of fluid. For the proper inter pretation of the changes in the blood ures it was necessary to maintain the volume of unne within certain limits. No supper was given. The first specimen of urine was rel cted but every specimen thereafter was saved An ovalated specimen of blood was taken One gram of urea to 10 lhs of body weight was given in sweetened lemonade. Two hours later a second specimen of blood was taken Fourteen hours after the administration of the urea the last specimen of blood was taken and the quan tity of urine was measured

Sutt five determinations made in the cases of twenty seven normal subjects showed a sharp in crease in the blood urea between the first and by a gradual return to The musticut of the urea following the state of the control of the transition of th

It was decaded that the second hour reading wis of relatively minor importance but that an increase me the urea mitrogen in the blood after the fourten hour interval was of significance. Variations up to 2 mgm above the central level were considered within normal limits provided the urine output was not over 700 C cm.

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In a senes of sixteen patients with definitely ab normal unnary findings and definite impairment of mad function the blood urea averaged 15 0 mgm two hours after the ingestion of the urea and there were individual increases to more than 18 mgm At the end of fourteen hours the average residual was 10 1 mgm. In about half of the cases there was a polyuria of over 750 c cm. The ingestion of the weaded not influence the clinical condition or cause discomfort. In two cases of uraemia the blood urea continued to rise during the fourteen hour period an observation demonstrating that the kidneys were unable to eliminate not only the urea given but also the wea produced by catabolism of the tissues In these cases a relative obscuria developed

The determinations were made also in the cases of thirty-one patients with pathological urinary findings but with renal function that according to the usual tests was normal. In cases of acute and thronic nephritis early and mild infections and obstructions there was moderate retention after the

fourteen hour period

In a case of compensated heart lesion and in five cases of hypertension with negative urinary findings the results were normal. In hepatic disease with jaundice and ascites and in four cases of permicious anemia there was moderate retention

CLAUDE D. PIELDELL M.D.

Mayra E B Renal Function in Unilateral Dis orders of the kidney Best M J 1928 11 1028

From a study of ahout fifty cases Mayrs con thides that chemical analysis of the urine is not of much aid in the differential diagnosis of unilateral lidney disorders hecause various pathological condi tions may have similar effects on renal function However it seldom fails to show which kidney is affected

The chief value of chemical analysis of the urine les not in revealing the presence of calculus or tubercle but in demonstrating the degree of injury to the kidney cells The most important problem is to distinguish the reflex diuresis from loss of con tentrating power due to inefficiency of the kidney epithelium The kidney which is taken as a normal control may not be normal In most cases the blood urea is a safe guide TROMAS F FINEGAY M D

Fey B The Results of Twelve Operations for the Painful Syndrome of Hydronephrosis The Preponderant Rôle of Abnormal Arteries Résultats de douze interventions pour syndrame doulouseux d'hydronéphrose Rôle prépondérant des artères anoimales) treh urol de la clin de

Vecker 1928 vi 193 The twelve operations reviewed were performed for pain indicating intermittent hydronephrosis The author believes that surgery is justified by this in dication alone because a conservative operation is

possible only if it is undertaken early When the syndrome is not definite complementary

indications must be sought Pyelography may show

The degree of dilatation This is of importance only if it is well advanced as pyeloscopy has demon strated that minor dilatations may be purely physiological

2 A deformity of the renal pelvis due to an ab normal artery This may consist of a simple nick in the shadow a clear space at the juncture of the preter and pelvis or a spiral shadow due to rolling of the ureter over the abnormal artery These changes are seen however only when the dilatation

is well established

Prelography is therefore of no value in cases that can be benefited by a conservative operation but pyeloscopy gives information of importance in early cases. In only one of the author a cases did py closcopy prove unreliable. In two cases at revealed a hyper tonic pelvis and irregular contractions with a short exacuation time. In three cases, the evacuation time was retarded. In six cases, there was complete or nearly complete retention. The importance of the interpretation of these findings is emphasized Papin and the author have expressed the opinion that com plete retention signifies a complete and nermanent loss of motility and for cases with complete retention they have advised nephreetomy However the author's present attitude is less dogmatic because pyeloscopy has shown that the loss of motility of the renal pelvis may be only temporary. At the time of examination there may be only an inhibition of the pelvie contractions After a nephrectomy for com plete retention the kidney has been observed to contract spontaneously and rhy thrnically Chevassu has made the same observation in two eases On one occasion the author saw contractions appear after section of an abnormal artery and was thereby led to preserve the kidney

In the treatment of hydronephrosis the first sten is exposure and exploration of the kidney Judging from the literature and the author's own experience (eight of the twelve eases reviewed) an abnormally placed artery is usually found. This has been described as a vascular band an inferior polar artery or an abnormal artery There are also ab normal arteries of the hilum. In one case the ureter was kinked over an ovarian artery

As the usual mode of approach disturbs the ana tomical relations so that any kinks of the ureter may entirely disappear the author employs an anterior extraperatoneal route (Baz) Chevassu Legueu) which allows inspection of the kidney without dis turbing it or its pedicle. When the nature of the lesion has been determined the decision between nephrectoms and a conservative operation must be

made

The indications for nephrectomy are loss of the secretory power of the kidney revealed by a thinning of the renal parenchyma and loss of the excretory function The latter is difficult to judge As an indication of loss of motility dilatation of the ureter is of more value than dilatation of the pelvis. The best procedure seems to be direct stimulation to prowoke contraction of the pelvis after the constricting band has been severed. If contraction occurs con servative treatment seems justifiable Nephropexy is the operation of choice when there

is ptosis of the kidney This was employed only once in the cases reviewed The author is opposed to its routine use

Section of the artery which is embarrassing the pelvic function suffices to cure the retention (cure in all of seven cases) Complementary operations (nephropexy plastic operations) are superfluous Theoretically there is danger of causing an infaret by sectioning an artery but practically no accidents are observed Because of the technical difficulties and the uncertainty of the results the author has never employed any of the plastic operations on the nelvis or ureter

A complete cure was obtained in nine of the twelve cases reviewed In eight of the cured cases an artery was the cause of the symptoms In one of two cases of rotation of the kidney a partial cure was obtained and in the other the treatment failed. In one case no lesion was found. Infection was present in two cases In one of these there was a veritable pyonephrosis The fact that both patients with infection were cured confirms the author's opinion that persistence of in fection is directly related to loss of motility of the excretory passages Pyeloscopy shows that motility is recovered in all cases after operation. Curiously the notch produced by the artery often persists

With regard to the pathogenesis of the bydrorephresis the author concludes that the action of an abnormal arters is not mechanical but reflex Except for the presence of such an arter, there is no congenital cause of hydronephrosis.

The crises of pain are due to spasms of the muscu lature of the pelvis and ureter occurring between

intervals of inactivity The author's twelve cases are reported in detail

with roentgenograms and anatomical diagrams ALBERT F DE GROAT M D

Legueu Fey and Cordan Disturbances in the Evacuation of the hidney Pelvis and the Recurrence of Calcult (Les troubles d évacuation du bassinet et la récidire des calculs) Arch urol de la clin de Aetker 1918 vi 175

There being no way of predicting whether or not calcult will recur after pyelotomy or dephrotomy the indications for nephrectomy have been gradually ex tended in recent years To discover the factors which influence the prognosis in nephrolithiasis the authors have re-examined seventeen patients whom they operated upon for this condition

In ten of the seventeen cases a pyelotomy was done in five a nephrotomy and in two a ureter otomy The calcula recurred in five cases (27 per cent) Three of the recurrences followed pyelotomy and two followed nephrotomy The diagnosis of recurrence was made with the \ ray Four of the five recurrent calcult were silent

Of the conditions that predispose to recurrence infection comes first Infection was present in fifteen of the seventeen cases Both of the two patients without sepsis remained well. Of the seven with infection who had clear urine soon after the operation all remained without recurrence. Of the eight who remained infected after operation five suffered a recurrence

While the role of infection is certain the conditions that cause persistence of infection require investiga

After every operation efforts should be made to sterilize the urinary tract. In a number of cases the urine clears rapidly even without treatment but in others which are clinically identical th infection persists regardless of any and all therapy. The authors have seen calculi develop while the patient was receiving weekly arrigations for a colon bacillus pyelstis In studies of the relation of imperfect evacuation of the renal pelvis to the persistence of infection it was found that the infection and re

teotion paralleled each other Of the authors nine patients who were free from recurrence and had clear urine only one showed any degree of retention in the renal pefvis. The three whose urme remained infected showed retarded evacuation of the renaf pelvis. Therefore the ultimate cause of recurrent calculi appears to be

retention which acts by maintaining infection In pyeloscopic studies calculi have been found to cause a degree of retention that seems to be entirely reflex Continued retention after operation is as cribed to a functional disturbance of the musculature of the pelvis If a calculus is removed promptly the normal motricity of the pelvis is promptly recovered any infection that may be present is overcome and the patient remains well but if sclerosis of the kidney pefvis has taken place the tonicity of the pelvis is lost retention and infection persist and recurrence of the calculus is mevitable. These facts may be utilized in establishing the prognosis and the ab sence or presence of a good pelvic mothly will en able the surgeon to choose wisely between nephree tomy and a conservative operation

ALBERT F DE GROLT M D

Aretschmer If L and Randolph II S Spindle

Celled Sarcoma of the Kidney in Adults tax SH F 1028 PERSON TOTAL The authors state that in children spindle-celled tumors are the most common types of renal neoplasms but in adults they are rare and spindle celled sarcoma is very rare. They report the case of a man fifty five years of age who complained of hamorrhoids pain and swelling of the left testis and the left lower quadrant of the abdomen of six weeks duration epigastric distress which occurred in mediately after meals and was frequently relieved by womiting a loss of weight for a period of two months slight frequency of unnation noctura fever and aventing of five weeks duration and a paroful varicocele which had been present for several months The abdominal pain was of a mild dragging character and was noted especially after walking

The swelling and pain in the testicle had become provessively more marked and constant and

radiated to the perineum and anus

Examination revealed a hard mass in the left fank which extended up to the ribs across the mid lise and down to a point just below the left anterior superior spine of the ilium and moved slightly with respiration. A mass was palpable also just above the umbilious Slight tenderness was present in the right fank hut none was noted on fist percussion poste norly The urine contained blood and pus Exam mation of the stools revealed a strong benzidine reaction Fluoroscopy showed the stomach to he displaced to the right. In the urine from the feft kidney the urea was markedly diminished and the phthalein test was not readable. The pyclogram of the right kidney was normal but that of the left adney showed a complete block of the renal pelvis A diagnosis of tumor of the left kidney probably hypernephroma was made

Operation revealed a large tumor mass firmly addition revealed a large tumor mass firmly addition revealed a large tumor masses both the left hidney disclosed large tumor masses both above and helow the area from which the kidney

had heen removed (lymph gland involvement)
The patient recovered from the operation and re
mained in good condition for several months hut
ded from an extensive local recurrence Permission

for autopsy was not obtained The pathological

durances was spindle-celled sarcoma. Spindle-celled sarcoma of the kidney has been confused with hypernephroms, but its most difficult to differentiate from retropentoneal sarcoma. The tracerported in this article is an excellent example of the latter difficulty as the tumor had almost completely inspaced the better the retropent of the latter difficulty as the tumor had almost completely inspaced the bedware The new of the center of the property of the prop

pletdy replaced the kidney. The point of origin of the sarcona is difficult to establish the kidney from the capsule but is generally present when the tumor is of stromal and epithelial origin where the tumor is of stromal and epithelial origin where the tumor is of stromal and epithelial origin where the tumor is of stromal and epithelial original to the tumor is of stromal and historial tumor symptomatic vancous less of kidney tumor is sugardiscance. Loss of weight of the kidney as differentiated from other types of shee kidney as differentiated from other types of sheep tumor is practically impossible.

LOUIS NEUWELT M D

llenline R B A New Method of Paravertebrai Anaesthesia for Kidney Operations Report of Thirty Three Cases J Usal 1929 xu 27 Jeck II S Nephrectomy under Spinal Anaes thesia with Particular Reference to Nephrec tomy in Renal Tuberculosis J Usal 1929 xu

Ockerblad N F and Dillon T G Ephedrine— Controlled Spinal Anæsthesia J Urol 1929

Healing calls attention to the fact that in renal operations the margin of safety is less than in most surgical procedures because one of the organs of

elimination is either removed or considerably em barrassed. It is still further reduced by the use of general anasthesia. With paravertebral anasthesia it is possible to operate in cases in which the function of the ladneys is so defective as to render the risk of general anasthesia every great. Regional anasthesia causes fewer deaths than inhalation anasthesia.

In the author s method of inducing paravertebral amasthesia the posterior roots of the spinal nerves are injected with a solution of procain at or near their point of earl from the vertebral column. Only the nerves which supply the operative field are in pected. It is rarely necessary to use more than 1 g gm of procain. A 1 per cent solution of procain and the procain of procain and the procain of procain and the procain of the procain o

The use of adrenalin for regional anasthesia has been discontinued by Henline because it is not free from danger it increases the toxicity and angesthesia of sufficiently long duration can be in

duced without it

The needle used for the induction of regional anasthesia should he flexible but should not bend and should be long enough so that it will not he entirely buried in the tissues when the deepest in section is made

Before the regional injections are hegun Heinline gives three hypodermic injections of ½ gr of mor phine sulphate in z e cm of a 50 per cent solution of magnesium sulphate with procain after the method of Gwathmey These injections are given at half hour intervals.

For the paravertehral anesthesia a z per cent solution of procain without adrenalin is used. This solution is injected both above and below the trans verse processes of the eighth dorsal to the second lumbar vertebra inclusive. Five cubic centimeters are injected above and below each nerve except in the case of the two lumbar nerves for which to the case of the two lumbar nerves for which to the original and histoprogrammers are of present in original and histoprogrammers nerves are in preted through one skin puncture.

Henline uses also the posterior method of splanch me analysis devised by Kappis. He employs this method for manipulations of the kidney. In addition the line of the incision is unfiltrated subcutan cously with the 1 per cent procain solution.

If weakening of the pulse is noted during the administration of the procain which is not unusual the induction of the annesthesia is stopped and a hypoderima injection of 1 on of a 1 1 coo solution of adreading of 1 on 5 to 10 gr of a solution of affient sodium hencest are given immediately caffien sodium hencest are given immediately to the pulse to normal within a short time.

Fluids are given before during and immediately after the operation The administration of fluids is very important in renal surgery as it prevents tem porary dehydration with disturbance of lidnes function

By the combined anasthesia described Henline obtained successful results in go 6 per cent of eighty one cases. In forty four cases additional anasthesia was required. For operations lasting an average of forty two and two tenths minutes an average of 1206 c cm of 1 per cent procain was used.

JECK believes that spinal anasthesia is better for nephrectomy than any other form of regional anæsthesia. It necessitates less experience on the part of the anasthetist it requires much less time and much less manipulation and therefore apares the nervous system of the highly neurotic patient and it is satisfactory in a higher percentage of cases than other forms of regional anasthesia. In renal tuberculosis it is better than general anasthesia for nephrectomy because it spares the lungs at has no apparent effect on the kidneys it is associated with less danger of dissemination of the toxic material as it usually requires much less handling of the kidney and it is seldom if ever followed by the very distressing type of ileus which so frequently follows aidnes operations performed under general

and investions cases Jeck used either novecame or pitch a solution (soo man does of novecame) or necessar. The site of injection has the space between the twelfth dorsal and first lumbur vertebra or that between the first and second lumbur vertebra or that between the first and second lumbur vertebra or that hetween the first and second lumbur vertebra or the same of the cases Jeck used speldente to prevent the marked drop in the blood pressure which almost always follows the intraspanal injection of noveath He obtained better results with Pikins s solution than with novecan alone. Not much stiterious was paid to the blood pressure unless vomiting sudden than with novecan alone. Not much stiterious was paid to the blood pressure unless vomiting sudden pallor or an interesse in the expuritory movements or adirenalin was used and the patient placed in the Trendelenbure position.

OCKERBLAN and Dilloy report on the use of ephedrine in 150 cases of spinal anasthesia. They state that in patients subjected to spinal anasthesia a circulatory collapse occurs which varies in degree according to the patient's age the stability of the circulation the blood pressure the amount of procain introduced into the subdural space the length and seventy of the operation and the patient's pervous and general physical condition. There can be no doubt that this is due to paralysis of the splanchnic nerves which is produced by the procain and is followed by dilatation of the splanchnic ves sels causing them to act as a reservoir for nearly all of the blood in the body. It was to combat this condition that the authors began the routine use of ephedrine The pharmacological action of adrenaha and ephedrine is somewhat the same but ephedrine produces a sustained increase in the blood pressure both systolic and diastolic

In cases of hypotension the authors give ephedrine long enough before the administration of the procuin

to rase the blood pressure from so to an ma show normal for the patter! As soon as a tendence to ward a fall in the blood pressure as a tendence to supparal anasthesis as of general productions of the standard standard so the standard so the standard at indervals of from three to five muster be pressure rases. When the summit of the test is reached the tendency toward a fall is combated in the same mismaner.

Serra G Ureterovenous Anastomosis and Its Effects Particularly with Reference to the Production of Uraemia (Leanstomosi ureterosenosa e le sue conseguenze specialimente la rapporte con la genesi dell'uremia) Irch ital d'ehi 1928 xtu 137.

In experiments on dogs in which Serra estab whed a unslateral anastomous between the preter and the iliac vein he found that in a certain percentage of the animals the opening remained permeable for a considerable tength of time but in others was promptiv occluded by a thrombus. In the latter his findings agree with those of Bruecke. In the animals with occlusion the late effects were those of hydro nephrosis In those in which the opening remained permeable Serra did not see the rapidly latal uramic symptoms described by Bruecke Instead he found inflammatory and degenerative changes in the liver and kidness and progressive general de pression with a moderate increase in the amount of urea in the blood. However the behavior of the xanthoprotein reaction was by no means constant These findings show that contrary to the opinion of Bruecke and others a direct flow of urine into the blood can be borne for some days (as long as ten days in the author's experiments)

The symptoms and pathological lessons are explained by changes in the blood and the establish ment of a vicious circle as a result of the di urbaner of the excretory function. The fidning do not justify the assumption that there is a nephrogenetoria. When the renal and hepatic lessons has been once produced by the disturbance of exchange between the blood and urane the products of disintegration of the parenchy mutous cells contribute undergration of the parenchy mutous cells contribute

stall further to the damage by their toucity.

Histological examination of the anastomous showed changes in the structure of the walf of the term the venous endothelium was destroyed and in some instances there was problection of the unternal endothelium on the inner surface of animal with destruction of muscle cells and and adventually the surface of the surface

Trattner H R Ureteral Activity in Some Pathological Conditions Studied by the Graphic Manometric Method A ch Surg 1918 x14 968

The author describes a sensitive instrument for the graphic manometric study of ureteral peristal is by means of which ureteral activity may be recorded without obstructing the escape of urine method is adaptable to the intact unexposed human ureter as well as to the exposed or excised animal ureter and causes minimal inconvenience to the pa

tient and operator

The outflow of urine is controlled by a needle valve adjustment in order to establish the degree of peripheral resistance at which contractions are best maintained and to simulate intravesical pressures The upper lower and middle portion of the ureter may be examined separately by placing the end of the catheter at the desired level. In clinical cases the activity of the ureter of one side is usually compared with that of the other by using one manome ter alternately. However simultaneous records of both ureters have been made with two manometers. and in bilateral ureteral duplication with four

The ur ter seems to possess two chief types of waves namely the small rapid pendulum move ments that are not concerned with the propulsion of urine and the slower more powerful peristaltie con tractions that are usually accompanied by an out flow of urine These waves vary in configuration There are tonus variations tonic and spastie con tractions and changes of rhythm The waves may be (1) complete 1 e pass along the entire length of the ureter (2) incomplete 1 e arise in the renal pel yis but disappear before reaching the bladder or (3)

local 1e confined to a small segment of the preter The problem of effective ureteral drainage is not accessarily one of mechanical ureteral obstruction Ureteral obstruction may be of the dynamie variety in which there are hypertonus spasm etc or of the sdynamic type in which there is hypotonus atony atrophy or paralysis Under such conditions normal renal physiological activity is impaired by the loss of a functionally competent ureter Incompetency of the ureteral musculature will account for the uni lateral dilatation sometimes seen when the obstruc tion is distal to the ureter and for the resistance to

t eatment in many cases of ureteropy elitis

A test of ureteral competency is made when spon taneous peristaltic activity seems to be absent since under such conditions the ureter may be either merely quiescent or incapable of contracting test is made by injecting fluid into the ureter II the breter is capable of contracting energetic attempts at expulsion are elicited. The motor response varies according to the degree of ureteral involvement and

is designated as strong moderate fceble or absent The ro e of congestion of the female ureter in sim le uretentis is discussed. Whether the increased blood flow to the lower female ureter causes a methanical impediment to urinary drainage through congestion or ordema or the increased vascularity is in itself sufficient to modify ureteral peristalsis to such a degree as to give rise to a dynamic type of obstruc tion by reason of the hypertonic state of the ureter is

not definitely known

The manometric tracings allow classification of treteritis into the three following varieties according to the degree of ureteral activity

r First degree ureteritis hyperactivity hyper tonne Cases in this division are those in which an protestive early toxic or inflammatory process is pres

ent. There is usually acute colicky nam and yagi nal examination reveals tenderness along one or both ureters. The manometric tracing shows a marked increase in the amplitude and rate of the penstaltie waves or prolonged tonic (spastic) con tractions There is a strong motor response to the intra ureteral injection of fluid the patient com planning of severe pain when only a small quantity such as from 2 to 5 c cm is cently injected. In ure ters in this class normal activity may be regained or the condition may progress to the second degree

2 Second degree ureteritis hypotonus atonia Cases in this division are those in which ureteral activity is being or has been interrupted by toxic factors inflammatory infiltration or thinning of the muscular coats by dilatation The pain is more con stant and dull. On vacinal examination one or both ureters are palpable and tender to pressure. The manometric tracing shows either a marked decrease in the amplitude or total abolition of the peristaltic contractions There is either a feeble or no motor response to the intra ureteral injection of fluid. In prefers in this class activity may be recained or the condition may progress to permanent paralysis

Third degree ureteritis paralysis Cases in this division are those in which peristaltie ureteral activity has been permanently abolished because of extensive inflammatory infiltration (fibrosis) or be cause of thinning of the muscular coats by marked dilatation (atrophs) On vaginal examination the ureter is usually found to be thickened and may or may not be tender to pressure. The manometrie tracing shows complete absence of peristaltie ae tivity and there is no response to the intra ureteral injection of fluid This type of ureterities is usually secondary to tuberculosis calculous disease diffuse fibrosis ete

Manometric tracings have been made in the follow ing conditions (1) normal (2) hydro ureter and hy droner hro is (3) lithiasis (4) after uretero lithotomy or after the spontaneous passage of a ureteral stone (s) cord blacder (6) bilateral complete duplication of the ureters (simultaneous records of all ureters) and 17) ureteritis of various degrees tuberculous and non tuberculous

In some cases the manometric tracings represent ing the condition of the ureter have been confirmed by the gross and microscopic examinations of the specimen and in others by roentgenograms made following the injection of an opaque solution

The author draws the following conclusions

Relief of amptoms in patients who have ure tentis or ureteropy elitis appears to occur simultane ously with the recovery of ureteral activity but ageravation of the disease seems to be concomitant either with ureteral hyperactivity or with the loss of penstaltic contractile ability

Mechanical ureteral obstruction cannot be dis sociated from functional ureteral impairment but very important in renal surgery as it prevents tem porary dehydration with disturbance of kidney function

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In cases of hypotension the authors give ephedrine lone enough before the administration of the procum to rase the blood pressure from 20 to 20 mm show normal for the patient. As soon 20 a tended-soon ward a fall in the blood pressure is noted disney, so spinal anasthesis to 0.5 m of ophetine is given at antervals of from three to five minutes until the pressure rose. When the summit of the many of the pressure rose. When the summit of the many of the pressure rose when the summit of the many of the pressure rose.

Serra G Ureterovenous Anastomosis and Its Effects Particularly with Reference to the Production of Urzemia (Lana tomo 1 uretero semona ele sue conseguence specialmente in rapp rio con la genesi dell'uremia) irch (I d ch. 1918 XIII 121)

In experiments on dogs in which Serra established a unilateral anastomosis between the ureter and the pliac vein he found that in a certain percentage of the animals the opening remained permeable for a considerable length of time but in others was promptly occluded by a thrombus. In the latter his findings agree with those of Bruecke In the animals with occlusion the late effects were those of hydro nephrosis. In those in which the opening remained permeable Serra did not see the rapidly fatal uramic symptoms described by Bruecke Instead he found inflammatory and degenerative changes in the liver and kidneys and progressive general de pression with a moderate increase in the amount of urea in the blood. However the behavior of the zanthoprotein reaction was by no means constant These findings show that contrary to the opinion of Bruecke and others a direct flow of urine into the blood can be borne for some days (as long as ten days in the author's experiments)

any a treatment of experiments and subject of the armyonus and pathogola dark the stabilish ment of a warms are a particular of the extreme of the exceptory function. The findings do not justify the assumption that there is a neptiment aroun. When the renal and hepatic lesions have been once produced by the disturbance of exchange the tree the blood and urne the products of disturberation of the parenchymatous cells continuite still further to the dramage hy that rotucts.

Metological examination of the anastomose aboved changes in the structure of the wall of the season of the season

Trattner H R Ureteral Activity in Some Pathological Conditions Studied by the Graphic Manometric Method 4rch Surg 1928 xru 968

The author describes a sensitive instrument for the graphic manometric study of ureteral peristal is by means of which ureteral activity may be recorded The group of signs cuted is not always complete. There may be only a projection of the posterior bor der of the neck or again only a lengthening of the within. The projection of the lateral lobe with electronic of the corresponding groove may occur only on one side. These mechanical changes were found in 27 of the 200 cases studied.

The presence of inflammation of the glandular onfices is a valuable sign. These may constitute true cardies and should be looked for in the lateral grooves and in the fossa immediately above the

remonstanum They were found an 36 of the cases. The signs described are rarely found alone. There are usually changes in the mucosa of the posterior urthra. These are classified by the author as (1) choose posterior urthris with collections.

tens methrits without colliculitis and (3) collicubits without involvement of the methra elsewhere Chaoges of the first type were present in 168 of the case studied. The inflammation was nearly always imited to the posterior methra. When the anterior methra was involved the inflammation there was

much less intense

The pathological changes observed in the mucosa of the posterior urethra are

t Simple congestion—an increase in the size and number of the submucous vessels with or without ecchymosis

2 Diffuse cedema The mueosa is uniformly red

but distinct vessels are not visible
3. Organized exdema characterized by the devel
opment of very vascular globular vesicles implanted

on a broad hase

4. Irregular fleshy vegetations which bleed at the

slightest touch

5 Small circumscribed intensely red granulations
and ulcerations. These two lesions are quite rare.
The ulcerations are difficult to discover because of
the exudate that is always present

6 A cicatricial aspect of the deep urethra. This is still more rare.
The same classification may be applied to the le-

The same classification may be applied to the sions of the verumontanum

Isolated lesions of the verumontanum are uncommon. The author questions the theory that the state of the verumontanum reflects the state of the seminal vesteles. In the cases reviewed no such relation ship was noted.

Only 13 of the 200 patients were free from lesions of the posterior urethra

After describing and classifying the endoscopic findings the author discusses the treatment. The treatment must be directed to both the glandular infection and the posterior unrethritis. For the prostatuts proper the standard treatment is found to be emmently staffsctory, but may be supplemented to advantage by the use of stock, or autogenous vaccines the application of the high frequency current by way of the rectum (technique of Morgenstern and Vlarcel) and radium irradiation.

The treatment of the posterior urethritis varies with the lesson in simple congestion urethrovesical irrigations with argyrol or mercurie eyanide and instillations of o per cent aliver nitrate are heinficial. In diffuse exdems, the use of the monopolar current applied with a glass urethral electrode and triggstream of the monopolar irrigation of the property of th

To avoid accidents due to infection the urethro scopic applications should be preceded by a long preliminary treatment by irrigations etc. For the urethroscopic treatment the patient should be hos putalized.

The results of treatment rigorously applied are uniformly good Of 31 patients presenting advanced lesions all were treated successfully

ALBERT F DE GROAT M D

550

there may be loss of function in the absence of me chanical interference

3 Manometric tracings are of aid in the detection of early as well as late disturbances of preteral func tion in the diagnosis of dilated ureter and pelvis with or without opaque studies in the decision as to which ureter should be injected with an onaque solution when there appears to be no difference be tween the two sides and in the determination of involvement of the ureter by tuberculosis calculous disease tumor etc

The types of ureteritis are fully elaborated with case histories which are illustrated by manometric tracings roentgenograms and operative specimens J EDWIN KIBEPATRICE Mt D

BLADDER URETHRA AND PENIS

Hunt V C Malignant Disease In Diverticula of the Bladder J Urol 1919 zm 1

While primary malignant disease of the bladder associated with a bladder diverticulum and with or without secondary involvement of the diverticulum is not common it occurs more frequently than

primary malignancy in a diverticulum without in volvement of the bladder Hunt cites eight cases of primary malignant dis ease confined to a diverticulum of the hladder which

have been reported in the literature four cases in which he operated himself and one case which was

operated upon by Judd Diagnostic features in the cystogram are the prosection of tumor tissue through the orance of the diverticulum into the bladder and a filling defect in

the diverticulum The aurgical removal of a diverticulum with malignancy is the same as that of a diverticulum uncomplicated by malignancy Extravesical extir pation is suggested as a means of completely remoing the growth with minimal risk of transplanting malignant tissue. In the absence of extravesical extension the results of extirpation of the diverticu lum so far as cure is concerned should be better than those of removal of primary malignant dis

ease of the bladder The specimens from the cases reported by the author were found to be squamous celled epithelio mata of a high grade of malignancy according to Broder s classification and similar to squamous-celled epitheliomata primary in the bladder

Moorhead S W Keeping the Patient Dry After Vesical Operations Pe nayleans M J 1928 XXXII 155

To keep the patient dry after a vesical operation it is necessary to suture the bladder carefully about the drainage tube inserted at the time of the opera The best drain is 1/2 in tubing moulded by being boiled on a form The tubing should be firmly strapped close to the abdomen over a few layers of gauze and tightly joined to a piece of 1/2 in tubing leading to a bottle at the side of the bed

After removal of the initial tube the collection of urine is more difficult. Attempts to absorb the urine by means of large gauze dressings are rarely successful At this time three methods are sppli cable suction drainage by the open method the application of a gutta percha or rubber-dam dressing and the use of one of the various types of drain age box or cup

For suction drainage some mechanical apparatus to suck air must be available. The author has obtained satisfactory results with the Sprengel pump a pump driven by a small electrical motor and an intermittent water syphon pump of the Dawborn

The gutta percha or rubber-dam dressing con sists of gauze and cotton surrounded by gutta percha or a rubber dam except at the operative wound To make a water tight joint between the skin and the

tissue the wound is surrounded by adhesive cement Among the collecting devices that have proved satisfactory are those advocated by Thomas Irving

TROMAS F FINTGAN M D and Muschat

GENITAL ORGANS

Flandrin P Posterior Urethroscopy in the Diag nosis and Treatment of Chronic Prostatitis (De l'urétroscopie postérieure dans le diamostic et le

trastement des proststites chromques) Arch urol de la clin de Necker 1928 vi 165 This report is based on a study of 200 cases of chronic prostation Blost of the examinations were made with the MacCarthy cysto urethroscope and a few with the instrument of Heitz Boyer and that of

the author The use of urethroscopy in prostatitis on a large scale has made possible the isolation of a certain number of cystoscopic signs which are characteristic

of the lesson These signs consist of deformities of the prostate resulting from the infection and consti tute a mechanical syndrome They are I An increase in the length of the prostatic ure

thra to which both the segment above and below the verumontanum contribute

2 An abnormal projection of the posterior border of the bladder neck which to a greater or lesser de gree obscures the trigone and the ureteral orifices 3 Effacement of the lateral grooves of the pros

4 Intra urethral projection of the lateral lobes

which is more or less prominent and nearly always pregular in contour

The two lateral projections are usually of small size and are easily distinguishable from the deformity produced by an adenoma In the differentiation of the two conditions the patient's age and the results of the rectal examination must be considered but it should he borne in mind that in chronic prostatitis the lengthening of the wrethra occurs both below and above the verumontanum whereas in cases of see noma only the upper segment of the prostatic are thra is affected

best done after the twelfth year of age Lateral de formity is prevented by fixation of the suhastragaloid mosts and balance is restored by backward dis

placement of the foot

Arthrodesis of the shoulder may be done in cases with strong scapular muscles and paralysis of the deltoid and other shoulder muscles When the shoulder is arthroded in from so to 60 degrees of abduction and from 10 to 15 degrees forward from the Sanital plane the substitution of the seapplar

movement provides good function In paralysis of the back muscles with increasing

deformity fusion of the spine is indicated MILLIAN A CLARK M D

Juengling O Osteitis Tuberculosa Multiplex Cystoides Also a Contribution on Tuberculids of Bone (Leber Ostitis tuberculo a multiplex cystoid's zugleich ein Beitrag zur Lehre von den Tuberkuliden des Knochens) Beitr klus Chr 10 8 cxlus 401

Juengling presents a detailed description of cierus tubereulosa multiplex cystoides reviews lorty six cases reported in the literature and reports

in detail nine cases of his own

The disease is often associated with two skin diseases lupus pernio and the sareoid of Boeck which are similar to each other both clinically and bisto logically In the former bone changes are common but in the latter they are less frequent. The bone disease may develop also without shin changes or may affect the skin secondarily Hygromata in the teodon sheaths and bursæ are common associated

Osterus tuberculosa multiplex cystoides occurs most frequently in the basal and middle phalanges of the fingers and toes the metacarpals terminal phalanges and metatarsals and the root of the nose Only occasionally does it affect the long bones

It begins in youth puberty seeming to establish a predisposition to it. It usually develops with in dammatory swelling and rheumatoid pains and spreads by attacks In the affected thickened parts of the limbs the dorsal veins are prominent and the skin becomes bluish red. On further progress of the condition granulations may rupture through the skin There is no suppuration and the mobility of adjacent joints is not disturbed. In some cases s retheral efflorescences from the skin are present from the beginning Frequently the patient is very sensitive to cold Occasionally there are trophic thanges in the nails from the disturbance of the circulation In very severe cases mutilation results

The roentgenogram reveals rarefication of the bone beginning in the marrow The bone shows a honeycomb structure with spotty lighter areas like punched out holes which are diffuse or localized in circum, embed areas and are particularly numerous in the heads of the phalanges

The diffuse type represents a florid initial stage and the circumscribed type a healing form of the condition Between these there are transition types

In a third type with a slow course the roentgeno eram shows diffuse finely snotted light areas a deheate lattice structure of the bone author's opinion marked destruction occurs in the diffuse form with large spots

Sclerosis is of relatively little importance and as a rule there is no periosteal irritation although slight bons swellings are observed Sequestrum formation and disturbances of growth do not occur Runture into a joint is very rare but arthritic irregularities may form when the condition is of long standing

With regard to the pathological anatomy and the etiology of the disease, the author states that under certain conditions the body reacts to the virus of tuberculosis in a typical special form the chief characteristics of which are a negative tuberculin reaction and the formation of tuhereulous nodules from enithelioid cells and fibroblasts with a few marginal lymphocytes with or without Langhans grant cells but always without easeation. This type of reaction is most common in the skin (lupus pernio and Boeck s sarcoid) but may affect also the deeper layers of the connective tissue the bursæ the tendon sheaths and in the typical form the bones especially the metacarnals metatarsals and phalances in the form of central hone for; which cause more or less destruction of the bone without producing any signs of periosteal irritation. In the roentgenogram, the bone foci appear like cysts and are always multiple The disease may develop in the same typical reaction form also in the internal organs in association with ordinary tuberculosis

The condition must be differentiated from spins ventosa osteitis fibrosa lues lepra tuberosa and enchondromata Particularly lues in the tabetic and paralytic stages and lepra tuberosa may present very similar roentgen findings. When the diagnosis is difficult the efflorescences of the skin may be of great aid

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It has not been determined whether any thera peutic measure will be effective in this condition. In a few cases treated by roentgen irradiation the skin foct have receded markedly but the bone foct have remained uninfluenced KOENIG (Z)

Albee F H The Principles of the Bacteriophage Applied to Osteomyelitis Internal J Med or Surg 1020 xln 1

Albee discusses the Orr method of treating osteomyelitis and reports several eases in which it was used. He helieves that when the tissues are bathed hy exuding pus retained in situ by a plaster of Paris bandage an immunizing reaction is produced at the site of infection D Herelle calls the trans missible lytic principle a bacteriophage and be heves that it brings about changes which increase phagocytosis

In Albee's opinion the Orr treatment reduces the tension and bathes the infected zone with an

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Diveley R L Anterior Poliomyelitis A Study of the Acute Stage with Special Reference to the Early Diagnosis and Treatment J Bone & Joint Surg. 1929. 21. 200

Of 185 cases of anterior policomyelitis which coccurred in the epidemic of 1923 77 per cent de veloped during the months of July August and September Eighty of the patients were under four exam of age seventy one were between the ages of four and fifteen years and thirty four were over fifteen years dage. There were thirty eight deaths

a mortality of 20 per cent

In the upper extremities the paralysis was first noted in the proximal groups of muscles and extended distally and recovery occurred in the opposite direction. The delited was the muscle most often affected and least likely to show regeneration to normal. In the lower extremities the paralysis began in the distal groups of muscles and extended protunally recovery occurred in the opposite direction and the muscle most frequently affected was the tibular saticus.

In only 12 of the cases was a spinal puncture made for diagnosis or treatment. It is noteworthy that when spinal drainage was done and repeated to keep the intraspinal pressure down the acute symptoms often disappeared immediately the paralysis was

light and recovery was rapid

None of the patients was given human con valescent aerum or the immunized horse serum of Rosenow In a very large percentage of the cases the diagnosis of poliomyelitis was not made until

after the development of paralysis

Of 14 cases studied by the author during the epidemic of 19 5, 4 were treated medically and 10 with serum and spinal draining. In the cases in which Rosenow serum was used fecovery was more rapid and the paralysis less marked and extensive than in the untreated cases. The effect of spinal drainings on the acute symptoms was alimost phenomenal the symptoms disappearing for the most part very soon after the drainings and recurring only when the spinal pressure was again trated above the normal. The death rate was much smaller in the treated server.

In experimental studies on monkeys it was found that the animals could be immunized against an active virus of poliomy-litus by human convalescent serum and the anti-streptococcus serum of Rosenow but the immunization was much more complete when human convalescent serum was used

In conclusion the author states that the treatment indicated for the first or active stage of acute pohomy clitis is absolute rest general freatment for fever early and frequent spinal drainage to keep the spinal pressure down and the intraceous or intra muscular administration of specific serum ROBERT CLOYERGEN M.D.

MacAusland W R Deformity in Infantile Paraly als Its Prevention and Correction Yew England J Med 1920 cc 18

For the prevention of deformity in infinite paralysis the lumbs should be placed in a position which will reliar the paralyzed missles. In most cases the foot should be at a right angle the kines in extension the hip in abduction the close at a right angle the shoulder in abduction and the write angle the shoulder in abduction and the write in hip percentension. These positions may be munitianed by right plaster casts or well fitted harces. In case of paralysis of the back the use of a plaster shell with the spine in slight hypereticasion i advishle White the lumbs are in the casts under attorph of the muscles may be preveated by massage and

exercise

The method by which deformity is corrected depends upon the degree of the deformity. Shight contractures of the soft insues and very early beny deformaties may be corrected by manipulation. In most cases is encotomies should be avoided until manipulative treatment has been given a thorough trial. Operations of consequence around be delayed until at least two years after the notice stage of until at least two years after the notice stage of until at least two years after the notice stage of the sta

bearing is not required

In cases of extreme deformity it is necessary to attack the bone to secure correction and maintain a stabilized new position. The foot is the most common site of such deformities Of the many methods suggested for the correction of severe deformities of the foot astragalectomy and subastragaloid arth rodesis are used most frequently Astragalectomy is the method of choice for talipe calcaneovalgus and is a very good operation also for finil foot equinus equinovalgus severe claw foot and certain cases of valgus and varus deformity. When properly per formed it shifts the weight of the body forward on the foot by displacing the foot backward under the leg Restoration of balance by this means is es pectally successful when the peroneal tendons are transplanted into the tendon of Achilles in con sonction with astragalectomy Subastragaloid arthrodesis is a good operation for

Subastragaloid arthrodesis is a good operation to milder cases of varus valgus and calcaneus. It is best done after the twelfth year of age Lateral de formity is prevented by fixation of the subastragaloid joints and balance is restored by backward dis

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WILLIAM A CLARA M D

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Only occasionally does it affect the long bones It begins in youth puberty seeming to establish a predisposition to it. It usually develops with in flammatory swelling and rheumatoid pains and spreads by attacks In the affected thickened parts of the limbs the dorsal veins are prominent and the skin becomes bluish red. On further progress of the condition granulations may rupture through the skin There is no suppuration and the mobility of adjacent joints is not disturbed. In some cases superficial efflorescences from the skin are present from the beginning Frequently the patient is very sensitive to cold Occasionally there are trophic changes in the nails from the disturbance of the circulation. In very severe cases mutilation results

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Albee F H The Principles of the Bacteriophage Applied to Osteomyelitis Internat J Med & Surg 1929 xlu 1

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In Albee's opinion the Orr treatment reduces the tension and bathes the infected zone with an increasing concentration of bacteriophage so both dissociation and phagocytosis of the infecting organisms are accelerated PAUL C COLDENA M D

Durman D C Myeloma of the Spine Aum Surg 1928 Ixxxviii 975

The author reports a case of multiple myelomata in which the primary growth was believed to he in

He states that the outstanding symptom in all cases of spinal myeloms is pain due to eroson of the penosteum from within and pressure upon the nerve toots following collapse of the vertehir. The next most characteristic clinical sign is a progressive de formity resulting in a posture in which the abdomen protrudes the shoulders are held back the head as held forward and the feet are wide spart.

The laboratory findings include a secondary anemia with frequently a leurocytosis. On account of the extensive medullary involvement which is often present a blood dyscrasis is not surprising Beace Jones bodies are probably present in the unique at some time in all cases but frequently then are not fessential for the

diagnosis

In the authors opinion the most valuable diagnostics and is the roomage ray In the roomage energiam all bones except the vertebre have a typical worm eaten appearance with sumerous areas of decreased density. This finding is especially marked in the skull. In the appure there is extensive rarefaction with flattening of the vertebral bodies but little or no narrowing of the intervertibral cartilages.

Pittoni E An Enchondroma of the Right Trans verse Process of the Furta Lumbar Versebr Received by Roentgen Examination (Encondroma dell apolas trasversa destra della panca vertebra lombare metso in evidenza con l'indagene radioionical Riferma med 1918 sit vitaligne radiolonical Riferma med 1918 sit vitaligne radio-

The patient whose case is reported was a min twenty five years of age with a negative history When examined for the army he was dismissed on account of gibbus. In February 1976 he began to account of gibbus. In February 1976 he began have slight pain at the base of the night thorast near the property of the part of t

Inspection revealed a tumor with its fift boundary almost on the line of the spuonic processes its right and a little beyond the madscapular has its top at the level of the twithin the and its base below a transverse line passing through the spuonic may so that almost a little distributed insulated to the spuonic may be a little of the spu

pandul Exploratory puncture was negative Roem; gen extensions showed that the transverse process of the first humbar vertebra had disappeared while that of the second was shortened and deformed as if by a weight resting upon it. There was no popule zone in the region of the tumor into and around which the author injected lipsoid. The examination which the author injected lipsoid. The examination which the author injected lipsoid in first limited to right and the properties of first limited vertebra that it had a thick captule and that there were cytaic appears in its center.

The neoplasm was removed on November 20 under tropococain spinal anaesthesia Examination showed it to be an enchondmma with cystic degeneration in the center

The patient was discharged as cured at the end of two weeks. A year later he was in excellent condition with no symptoms to indicate either local recurrence or metastasis. Append G. Mingale M.D.

Guillaume Louis The Anatomical Findings in a Case of Rupture of the Quadrices Todom (Note à propos d'un cas de rupture du tendon quadricipital constatations snatomique) Bull d' min Sec not de d'ur 1028 la 19101.

A symmast fell from a horscotal har and haded on his feet no a squattang position. He felt a wolent pain in his right thing and was unable to rice Oncamination a deep depression was found in mediately above the patella. The patent could not rises has hed from the bed. Over the anterior surface of the kinet there was an extensive exception and the state of the patellar part of the country of the market.

At operation the region above the patella was ex posed through a median longitudinal incision. The runture of the tendon was found to be clean cut and to include the lateral aponeurotic expansions and the synovial membrane of the joint. The three easily distinguished layers in the tendon were sutured separately The deep layer consisted of the tendon of the vastus intermedius and lay on the antenor aurface of the patella in a large hæmatoma. This was sutured to the under surface of the tendon of the rectus femoris The middle layer was formed by the interlacing fibers of the tendons of the vastus later alis and wastus medius. Here the rupture was ver tical This breech was closed and the tendons were sutured to the borders of the rectus femoris tendon The superficial layer which was ruptured trans versely consisted of the rectus femoris tendon. The two ends were united by interrupted sutures

Massage was begun on the fifth day and mobilization on the ninth day after the operation. Fifteen days later the patient was able to walk and eventually he made a complete functional recovery.

The anatomical findings at operation conformed to the description given long ago by Poince The usual tear of the synovial membrane is explained by the distention of the muscle fibers termed the articulars genu muscle. The vasit tend to separate in the midline but preserve their connections with

the patella hence the necessity of suturing their borders to the tendon of the rectus femoris to re establish their function ALBERT F DE GROAT MD

lleeler O The Pathogenesis Clinical Aspects and Treatment of the Fiall knee in Its Relation to the Collateral Tibial Legament (Ceber die Pathogenes Kinak und Therapie des Wackelkness in sente Benching zum Lagamentum Collaterale blaib) Burr b Abbandl a d Gezonigeb d Med 1038 y 148.

The author discusses only cases of flail knee in shick the internal lateral ligament is directly or outsettly responsible for the laxity of the joint. The most important defect in the ligament causing the modition is a direct break. This may result from custation suppurative degeneration or direct insumatic division. It is are as compared with indirect break which may result from distortion abduction byperextension and luxation. In the indirect break the ligament itself is not ruptured but it for look from its insertion into the home. The internal lateral ligament is migured much more frequently that the external lateral ligament is migured much more frequently that the external lateral ligament.

seanty teat the external interial ligament constituting of lateral mobility of the knee is constituting in orientations of the same of the constitution of the constit

In the diagnosis of a flail knee the lateral move means of the joint are of chief importance. While the high is fixed the leg can be rotated externally at the knee joint and sometimes also internally. The tailmanton should he made with the leg completely extended. Among the sequelix of flail knee are

arthritis deformans and chronic serous arthritis The treatment must be directed toward restora tion of the function of weight bearing Conservative treatment consists in the application of a splint or the use of measures to strengthen the musculature The operative treatment is directed against the in Jured ligament When the ligament has been divided it must be sutured. When it has been stretched reeing of the capsule and the ligament comes up for consideration In some cases a plastic operation on the ligament may be advisable. The author des cribes an operative procedure which was first used by Heller and consists essentially in suturing the leadons of the gracilis and semitendinosus muscles to the capsule of the Luce and to the internal condyle of the femur

The article is supplemented by an extensive bibliography Zellmer (Z)

Mouchet A Metatarsal Epiphysitis J Bone &

Metatarsal epiphysitis is known also as Koehler's dicase of the second metatarsophalangeal articula

tion second Koehler's disease (to distinguish it from Koehler's disease of the tarsal scaphoid) infraction of the second metatarsal head (Frei

here) and osteochondritis of the metatarsal heads It is less rare than has been thought but unless a roentgen ray examination is made it remains un suspected. It occurs most often between the ages of twelve and twenty years, and more frequently in females than in males As a rule it involves the head of the second metatarsal but has been found also in the third and the fifth metatarsal Its onset is slow with nam in the forefoot at the level of the second and third metatarsal heads which is increased on standing or walking and ceases after rest. There is no deformity and no loss of mobility. I ain is caused hy pressure at the site of involvement and there may be slight swelling Frequently the anatomical bone changes do not appear in the roentgenogram until after several weeks. The roentgenogram shows an pregular indented contour with alternate zones of rarefied and condensed bone. At times there is a well defined cuneiform osseous zone suggesting a seques

tensite.

In the author's opinion the condition is an attenuated osteomy-bits. The prognosis is good there being a tendency toward spontaneous cure. Mouchet says however that the course of the disease is longar at least eighteen months—and unless proper treat ment is given the fesion may result in disabling arthritis deformans.

trum The roentgen ray appearance is very charac

The author recommends the use of crutches with immohilization in plaster for six months if the case is seen early and resection of the metatarsal head if the condition is advanced

ROBERT C LOVERGAN M D

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Callssano G Interposition of Fixed Cartilage Between Bone Stumps for the Purpose of Producing a Nearthrosis (I perseuse dinter possuose di cartilagine fissaia fir moncono ossi al fine di ottenere una neoartrosi) 1rch stal di cl ir 1918 Etti 206

Though good functional results have been ob tunied experimentally in ankyloses it cannot be said that heretofore a true nearthrosis has been produced. The formation of a new joint requires two bone each capped with articular cartiage to prevent their fusion and a joint capsule containing suboval fluid.

The author describes experiments in which he took disks from the costal cartilages of calves fixed them in 95 per cent alcohol and then implanted them in the ribs of guinea pigs. The guinea pigs were killed and the grafts examined after periods varying from a

month and a half to ten months

In all of the earlier stages there was solid fixation

between the cartilage disks and the bone ends In the specimens examined after ten months the end of the two bones were covered with a thin layer of connective tissue derived from the peronsteum. Be tween this layer and the disk of cartilage on each safe there was a cushon of tissue made up of stellate cells and showing large methes containing in some places agranular defirition and in other places readues of delicate fibrils. Toward the center of the cushon the arrolar tissue had disappeared and there was a cavity containing only a delicate reticulum of congulated substance.

These findings show that siter a long time the conditions around the grafted cartilage are similar to those found in the developing joints of the fetus there being a tendency on the part of the grafted captilage to soften and produce a fluid resembling

synovial fluid

The experiments indicate that if a joint is to he formed by the grading of cartilage between two bone ends equal pressure must be exercised by a smooth and resistant surface on the callus at the ends of the stumps to form an articular cartilage and there must be movement of the two ends to form a synousic lavit. Americ Moscan MD

Galcazzi R The Treatment of Scoliosis J Bone & Joint Surg 1929 to 84

In cases of scoliosis the author gives preparatory mobilizing treatment and then proceeds to over correct the deformity with the aid of an apparatus

he has devised

The apparatus consists of two independent units one of which fixes the scapular region and the other of which fixes the pelvic region. The patient is placed in the apparatus with the trunk borizontal



Fig 1 The author's apparatus for the correction of scolio 1

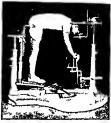


Fig 2 Patient in apparatus Feet on movel leplatform Pelvic girdle retained shoulder girdle retained. Hand on rest and forchead on rest

and the hips and arms flexed so that the spinal column is suspended from two end buttresses similar to its position in a quadruped. By varying the distance between these two end units and their relative heights above the ground it is possible to place the spine in the most favorable position for correction When the proper position has been obtained the two end units are secured at the exact reciprocal distance necessary for the apex of the dorsal and lumbar curves to correspond exactly to the centers of the rotatory movement and lateral flexion of the two units (i e in a double curve) The scohotic column is fixed at the two extremities by the application of plaster of Paris over two belts. Later these two portions are joined by two intermediary sections. When the cast is finished the patient stands in a bent over position and walks with the body flexe! and bent toward the convexity as in the Abbott method but not so markedly A successful result depends upon a long preparatory mobilizing treat ment

The superiority of the treatment to other methods seems to he due to the rationale of the correction which is effected by derotation and defication methods instead of by direct force ROBERT C. LOVERGA. M.D.

Meinberg S The Results of Spine Fusion for Scotlosis J Bone & Joi t S rg 1929 x 66

In the operation, performed by the author for attractural isolous the posterior arches of the verte have are demuded. The attractual stools are posterior arched and segments of hore from the lamma are elevated and placed across the interlaimous spaces. A large before graft (or a rib graft) is then inserted on the concave sade of the curve and each symon, process spihlt into five or six fragments in order to obtain

extensive contact between adjacent vertebræ and between the graft and normal bone

Teoretically the primary curve should be fived but it is sometimes difficult to determine which is the primary and which the secondary curve. The fission extends bewond the limits of the curve to formal or at least transitional vertebre. As a rule it is found necessary to fuse the dorsal area. In a compound curve the dominant curve or the more de-

found sigment is fused. The operation is preceded by a period of from four tought weeks of necumbency on a convex frame with tration. After the operation the patient is kept remoted to the convex frame for from six to eight remoted to the convex frame for from six to eight remoted to the convex frame for from six to eight remoted to the convex frame for from six to eight remoted to the convex frame for from nine to twelve months as replaced by a collabol corset to be worn for one vest?

The operation is serious and difficult and should be performed only by those who have acquired the requisite skill and with the aid of an expert anxis theths!

The author has performed it in ninety cases Recently he has re examined fifty four patients who ere treated from one to seven years ago With re gard to the effect of the operation on the patient's growth he states that in thirty one of the hity four patients there has been an increase in length of from to 6 in The results of the operation were excellent 14 78 per cent of the cases good in 13 per cent and poor in 9 per cent In the seven cases with good results the back appears satisfactory to the patient and his family hut the roentgenogram shows a doubtful or slight increase of the spinal curve In all of the cases with poor results there is definite evilence of osseous fusion of the vertebræ operated upon and no sign of a break in the union of the vertebre. In two eases the deformity has become steadily worse and there is no apparent explanation of the failure In or per cent of the cases the de formity has been arrested the appearance of the back is satisfactory and the patient has gained Reight and strength and is free from backache

ROBERT C LONDRGAN M D

RUBERT C LINFRGAN U D

FRACTURES AND DISLOCATIONS

Winen II P Treatment of Fractures with the Equilibrated Swinging Traction Apparatus
Surg G n t & Obs 1929 dum 90

The suprenson apparatus known as the Balkan frame as organized by Metz of Americadam in vog 11 acquired its prescribante when it was in trobated into Serba by a a formal father organical treatment for fracture decised by the state parameter of the state of the stat

leg in an oblique direction. Countertraction was obtained by. (1) the push of the uninjured leg against the box (1) the friction of the body on the bed and (3) a woolen sling which encircled the groin of the unjured side and was tied to the head of the bed. The semi-string position is of advantage especially in the cases of elderly patients in all trends to prevent

the development of pneumonia In the Noordenbos Surgical Clinic in Amsterdam the Steinmann skeletal traction is now used almost exclusively instead of adhesive straps. Rigid side sphut senarate for the leg and thigh and allowing knee motion are used for suspension instead of the original hammock and rings. The Steinmann nail i driven through the spongy bone under operative technique but without a preliminary skin incision When there is much over riding of the fragments the skin is held retracted proximally while the nail is being inserted. Once a week the bandages around the ends of the nail are removed and the area is dis infected On removal of the nail one end is sterilized with alcohol and picric acid and the other end is grasped with the forceps and pulled out Nails made in a piece are used. The occasional occurrence of infection or a persistent sinus is regarded as trivial as compared with the poor results of treatment with out direct skeletal traction

For the treatment of fracture of the femur a seat as wide as the bed 60 cm long and from 40 to 45 cm high and having a padded back and sides is con structed at the head of the bed Abundant freedom of body motion is allowed. The Steinmann pm is inserted at right angles to the general long axis of the thigh (not the long axis of the bone) Persistent angulation of the fragments is corrected by different tial extension on the ends of the nail. The leg and thich are suspended independently each to its own overbead arch. In order to prevent the construction that is caused by a cloth hammock, the thigh is placed in a wide curved gutter of thin metal. When the fracture is in the lower end of the femur and there is posterior displacement of the distal fragment, the Luce is moderately flexed The extension then tends to pull the displaced fragment forward by leverage the condules in contact with the articular surface of the tibia acting as a fulcrum. In cases of subtrochanteric and intratrochanteric fractures abduction is obtained by means of an adjustable pulley on an adjustable horizontal bar at the foot of the bed

Fractures of the leg bones are treated by extension by means of a pun through the os calcus; if the fracture is in the distal half or is compound. When the fracture is in the proximal half, the pin i introduced into the tibin near the distal end. Supersion is subjective to the case of the case

The suspension method is especially valuable for fractures involving joints. When the knee joint is involved the nail for extension is placed through the distallend of the tibia. Joints involved by fractures

sear

are given early active and passive motion which is easily done with the suspension method

Fractures of the humerus are treated by suspen sion and traction with the pin through the olecranon

and the elbow at a right angle. If the hreak is at the proximal end, the humerus is abducted

Fractures of both the radius and the ulna which cannot be reduced by conservative menna are treated by suspension traction one pin being placed through the olceranon and another through the distal ends of the two bones. The effow is at a right angle and the forearm vertical. A weight is bung on the pin through the distal pulley cord and weight are attached to the distal pin.

The author tabulates the resulfs in 137 fractures of the lower extremity and 40 fractures of the arm which were treated by this method at the Binner Castluns in Amsterdam. In the cases of adults the period of hospitalization was as follows fractures of the light sweitly three days fractures of the light sweitly three days fractures of the light sweitly three days fractures of the light seek of the light sweitly three days fractures of the light seek of the light specific days and fractures of the forearm thirty days free mere for ease of infection at the nail would not be seeked to the seek of the seek of the light specific days and accept of in 2 days in the others it closed in an average of in 2 days in the others it closed in an average of in 2 days in the others.

WILLIAM A CLARK M D

Silfverskiöld N The Treatment of Fractura Dislocations of the Shoulder Joint Add

chirst Scend 1958 law 237
The author reveres the leterature on fracture dislocations of the shoulder joint and reports sisteen
cases. At the time of the injury has patients sisteen
cases. At the time of the injury has patients of
the thirteen cases in which reduction by one
operation was done re-examination showed a very
good or good functional result. In six cases in which
the displaced head fragment had lost all connection
with the captule or peneterum hony muon with
practically normal function occurred after open
reduction in four

The union obtained in these cases is compared with that obtained in medial fractures of the neck of the femu. The author considers it possible that the stripped displaced head fragment is always capable of bony union that union and non union after reduction depend exclusively upon the treat

ment With regard to the treatment he draws the

following conclusions

1 The contra indication is marked impairment
of the general health

2 In the presence of contra indications mampu lative reduction may be tried under ethyl chloride anasthesia in some cases

3 Reduction by open operation is to be con sidered the routine method and should be done as soon as possible after the injury

4 Primary resection is indicated only in cases of exceedingly severe communited fractures especially those of the head and in cases in which the general condition will permit only a relatively brief open operation 5 After resection of the head arthrodesis (and perhaps arthroplasty) may sometimes give better functional results than mere adaptation of the upper end of the shaft to the socket

6 In reduction by open operation loose bone sphaters should also be fitted in and the large generates carefully approximated or weiged in Flan of capsule or periosteum should be replaced a flan of capsule or periosteum should be replaced at it possible sutured Occasionally periosted transplantation may be advasable. If otteopythetes is found occessors the use of a third graft chromicated catgut or small metallic naise should be considered catgut or small metallic naise should be considered.

7 The arm should be fixed in the scapular plane in abduction of 80 degrees and external rotation of 45 degrees. The fixation should be done on an abduction spinet made ready before the reduction and very

firmly fixed to the trunk.

8 As a rule the time of fixation should not he less than three weeks but its length should be determined by the roentgen findings and the way the head follows smaller rotary movements of the sim p Re-educative movements should he supervised by an expert and continued for from one half to one

Eliason E L Fractures of the Clavicle J 4m M

This article is based on a sense of soc case of fracture of the clavelle. Forty-one per cent of the clavelle. Forty-one per cent of the clavelle of the clavel

The fact that eighty five methods have been sug gested for the treatment of fracture of the clavicle is evidence that an ideal method has not yet been found The treatment should depend somewhat upon the wishes of the patient. If the patient desires the best possible anatomical result without shorten ing he must submit to recumbent treatment on his back with the arm of the affected side abducted with weight extension for about three weeks. For am hulatory treatment the most satisfactory method is the use of a posterior splint which pulls the shoulder backward and because of the upward slope of the chest wall also upward. Any dressing which binds the arm to the body wall not maintain the backward position of the shoulder As a rule good union and good function are obtained Open reduction is sel WILLIAM A CLARE, MD dom occessary

Thomas T T A Contribution to the Mechanism
of Fractures and Dialocations in the Elbow
Region Ann Surg 1929 Ixxxx 108.

In experiments on cadavers the author found that when direct force is exerted on the hand as in a fall it is transmitted up the arm causing flexion of the elbor The upward thrust may either drive the rights and uha upward and backward helrand the rights and uha upward and backward helrand be edd the bumerus or may break off the end of the bumers at its point of least resistance just about the onlyles. As the radius and ulna are held to gifter by the strong interosesous band as well as to gifter by the strong interosesous band as well as to be the properties of the seatch present such as fongtuidmail thrust.

The only moury to the skeleton that has generally ben asmbed to a fall on the band is the Colles fracture but the author contends that such a fall will frequently cause fracture or dislocation at the flexed

elbow rather than at the wrist

In thor fracture the datal fragment of the buncus almost always goes upward and backward butmav also go laterally un either direction depend out goon hether the impact is received on the beast or the hypothenar side of the hand. This is true also of the datal fragment in Colles fracture, ktordnay, there is a close resemblance between such breaks at the winst and the elbow.

These fractures are more easily explained by Genno the tebbow with the fracturing force than by clanism. When in the author is experiments the thow was fixed in flexion fracture of the coronoid process was produced five times in ten trials but she he thow was in extension the fracture was produced only once in ten trials. It practically never cours without dislocation of the ulma. The upward thruit of the coronoid is the force which breaks off the model, and sometimes also splits them vertically he important factor in the splitting is the wedge effect of the radge on the coronoid and oleranon.

Astenor dislocation of the radius may occur with our own without fracture of the promunel and of the ulns it may be produced by a fall on uneven ground in which a resistant object strikes only the radius near its lead. If the force strikes the ulna also it will use either a facture of both hones near the proximal end or a fracture of the thones near the proximal end or a fracture of the ulna and dislocation of the radius.

Edwards Il and Clayton E B Fractures of the Lower End of the Radius in Adults Bril W J 1929 1 61

The authors review 424 cases of fracture of the loant end of the radius which were treated at King's College Hospital in the three years from 1924 to 19 6. Three hundred and thirty nine were of the Colles type and 85 were backfire fractures.

The majority of the fractures of the Colles type sere transverse and occurred at the upper limit of the radial prize which enters into the formation of the unferior radio ulnar joint. In 158 of these tases the atthod process of the ulnar was fractured radio and the collection of the ulnar was fractured in addition to the radius or what to only 1 case.

The most common type of back fire fracture was an oblique fracture through the radial styloid with or

without fracture of the ulnar styloid.

In the discussion of the treatment emphasis is placed upon the importance of perfect reduction of

the backward till of the radial attitudar surface. The radial displacement of the hand and backward displacement of the fragment must also be corrected After the reduction the authors prefer to use Carr's splint in the majority of cases. In the cases of old patients masage as begun during the first week but in the cases of young patients may not be given until after fourteen days. In the cases reviewed the average duration of treatment was nine and a half weeks.

Magliulo A Fractures of the Base of the First Metearipal with Special Reference to the Mechanism of Their Production (Ie frature della base del primo metearipo con specula riguardo al loro meccanismo di produzione) Chir d organi di mozimento 1928 xii 557

The author accepts Tanton's classification of fractures of the base of the first metacarpal into two main groups intra articular Iractures and extra articular fractures. The first include transverse and the oblique varieties. The second are represented by Bennett's fracture and Rolando's fracture.

Bennett's fracture is usually described as an oblique fracture involving the median volar portion of the articular surface which is associated with slight displacement of the lesser fragment and apparent subluxation of the lhumb at the carpo metacarpal ionit

Rolando's fracture is a shaped and forms three fragments. It is rarely associated with subjugation

of the thumh

In a period of fourteen months the author saw nine fractures of the base of the first metacarpal Four were of the Bennett type and five were extra articular These cases are reported in detail The author's conclusions are as follows

Fractures of the base of the first metacarpal while rare are frequent as compared with fractures of the other metacarpals and fractures of the diaphy

sis and epiphysis of the bone

2 While the most common cause ol such fractures is indirect violence such as is sustained in a fall on the hand the fractures may result also from trauma to the brad of the first or second phalanx of the thumb.

3 The mechanism of production of the lractures is very complicated 4 As a rule the fractures are complete

5 The symptoms vary according to the type of

6 In the diagnosis the roentgen ray is indispensable
7 When the displacement of the fragments is

slight the prognosis is favorable Bennett's fracture may result in great functional incapacity complicated in some cases by pseudarthrosis or a deforming callus which interferes with manual labor

8 The treatment is non-operative or operative Operative treatment is indicated in severe fractures in which the displacement of the fragments cannot becorrected by the usual measures for immobilization of the thumb Very often good results are obtained from immobilization of the thumb in a position of half abduction and slight flexion for from ten to twelve days by means of a plaster of Paris dressing or continuous traction followed by active more ments and centle masses: kelloog Segue VD

Musti V Dialocating Cora Valga Clinical and Etiological Considerations (Cora valga luxans Klinisches und Actiologisches) Casop lek & sk 1028 Ivil 071 1015

Dislocating cort valge as described by Mapp is a condition in which a valgus position of the neck of the femu is associated with sublication of the head of the femu in a filst actabulum. It wassily begins in childhood with pain in the hip and hipming. Some times it is preceded by trauma. The chineal signs in the control of the control

that the acetabulum is irregularly elongated upward the head of the femur articulates only with its median portion and the epiphyscal head is flattened into a wedge shape and displaced laterally

The author reports the case of a man forty too years of age who fell upon his left hip and thereafter experienced difficulty in walking and pain in both hip joints which became so marked that ultimately the was unable to walk at all Examulation revealed blateral dislocating coxa valga with marked changes due to arthribit deligrams.

due to arthritis deformans
Musal assumes that the pursary condition in the
Musal assumes that the pursary condition in the
actabular cavity and that the valgus deformity us
secondary phenomenon analogous to the changes
following non operative reposition of the congenitial
disolacated hijn. He believes that dislocating core
avalga represents on the one hand the transition to
congenital dislocation of the hip and on the other
the transition to arthritis deforman hand hip point in
Perther discusses occurring in the hip of
Perther discusses occurring in the Hant (2).

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Gaglio V Terminal Forcipressure of the Arterles (Sulla forcipressura terminale delle artene) Arch tel di chir 1028 XXII 165

Gaglio describes experiments in forcipressure of the arteries which show that the compressed vessels teact in the same way whether they are of the elastic or the muscular type A thrombus always forms within seventy two hours. The thrombus of the central end is more developed than that of the pe upheral end but this is the only difference between the two ends It is evident that the thrombus of the artenes is not the essential factor in either temporary or permanent harmostasis as in one experiment a secondary hamorrhage occurred through a short aceration in the wall a few millimeters from the point of pressure at a time when long thrombs were present on both sides of the point of compression It is demonstrated also in these experiments as in those reported by \fasnata that the part subjected to the direct pressure of the forceps does not cause

temporary or permanent harmostasis In addition to the signs of regression such as desquamation of the endothelium and splitting of the internal limiting membrane and the elastic fibers there are signs of reparation which show that the final hamostasis is due to an active process of pro liferation of the cells of the media and the suh endothelial layer which begins at the end of the first bour at the transition from the part on which the forceps is pressing to the arterial cuf de sac and which within twenty four hours has extended some distance from the forceps Within seventy two hours at the point where the new formation began the two walls of the artery are completely joined by newly formed connective tissue in which there are no normal arterial elements except elastic fibers The thrombus doubtless has some function in bring ing about hemostasis but the author thinks it is only the auxiliary function of decreasing the blood pressure and thereby protecting the proliferative process of repair

In another series of experiments Gagho tried to determine the end results of forcipressure on the arteries He found that the organization of the thrombus and the cicatrization of the vessel are the same as after ligation. The organization of the thrombus is accomplished within from fifteen to thenty days by connective tissue prohieration it the point of pressure the vessel is transformed into a solid cord The proliferation does not stop at the cul de sac hut proceeds a little way beyond it The organized tissue which fills the lumen of the vessel becomes lined by newly formed endothelial cells which originate from the part of the en lothelium

that is left intact. The endothelium does not take any other part in the organization of the thrombus but possibly may help in the formation of new capillaries which according to the author's findings seem to come from the vasa vasorum New elastic fibers appear quite late

The practical conclusion to be drawn from these experiments is that foreipressure is a good method of AUDREY G MORGAN M D inducing hamostasis

Rallsback O C and Dock W Eroslon of the Ribs Due to Stenosis of the Isthmus (Coarctation) of the Aorta Radiology 1928 x11 58

The authors report a ease of asymptomatic steno sis of the isthmus of the aorta in which with a com paratively slight superficial collateral circulation there were numerous erosions of the third to the ninth rib as evidence of dilated intercostal vessels The delay in transmission of the pulse to the femorals confirmed the existence of stenosis of the aorta

The erosion of the ribs was first recognized at the time the patient entered the hospital for treatment of a gastric disturbance. The diagnosis of coarcta tion of the aorta was suggested to the authors by chance finding of a description by Walshe in 1876 of erosion of the ribs in that condition The nulse trans mission rate was therefore measured. The femoral pulse was found to arrive later than the radial pulse Under normal conditions the femoral pulse arrives from or to oz seconds before the radial pulse

The authors believe that costal erosion is undoubt edly pathognomonic of coarctation of the norta

JAMES B BROWN M D

Giertz k 11 and Crafoord C Thrombo Embolic Disease and Its Surgical Treatment ch i g Scand 1928 lxiv 121

The authors state that although thrombo embolic disease appears to be increasing the increase may he due only to more frequent diagnosis

The condition may be divided into the following types (1) obstructive pulmonary embolism (2) non obstructive pulmonary embolism with manifest thrombosis (3) non-obstructive pulmonary embo ism without manifest thrombosis and (1) manifest venous thrombosis without pulmonary emboli

True thrombo-embolic disease is a condition hav ing a definite relation to surgical procedures. It occurs more often and in more malignant forms in surgical than in medical wards and there can be no doubt that of patients admitted to surgical wards those undergoing an operation develop thrombo em bolie disease more frequently than those who are not operated upon

Of patients operated upon the disease occurs exceptionally in those subjected to operations on the head or trunk and rarely in those subjected to opera tions on the upper extremities or the chest

Patients with varices-thrombonhlebitis in par ticular-are very prone to develop thrombo-embo lism As a rule neither the thrombus nor the embolus

undergoes liquefaction Raising the foot of the hed and all other measures adopted to establish better circulation in the veins of the lower extremities and the pelvis seem to be with

out importance

Thrombo embolic disease may be present without any direct clinical signs of either thrombosis or embolism As a rule however there is a subfebrile tem perature and less often a certain impairment of the

pulse The generally assumed tendency of the manifest thrombosis to be localized to the left common thac vein and its root is not clearly borne out by the

authors cases

Besides the local clinical signs of manifest thrombo embolism the temperature and the condition of the pulse should be noted. A typical feature of the dis ease is the subfebrile and febrile arched curve with or without Mahler s sign but a more or less regular subfebrile temperature without or with a slight postoperative effect on the pulse in cases which nor mally ahould he without such changes is also an ex ceedingly suspicious sign and occurs almost regularly as a premonition of venous thrombosis as well as put monary embolism

Combined with the typical changes in the temper ature and pulse the attack of stitch like pains or hæmopty sis confirms the diagnosis of lung embolism even without manifest thrombosis

Obstructive pulmonary embolism presents almost without exception such a typical clinical picture that provided the case is carefully observed no doubt need be entertained as to the diagnosis. The condition is usually preceded by a suspicious subfebrile temperature otherwise unexplainable very rarely by shight attacks of lung emboli and exceptionally by venous thrombosis. In most cases it develops suddenly with typical symptoms the most usual of which are an intense pallor disappearance of the pulse and loss of consciousness. Other common symptoms are a sense of oppression air hunger and a mild evanosis with a typical venous pulsation above the clavicles the expression of the spasmodic attempts of contraction on the part of the right ven

In 50 per cent of the authors cases of obstructive emboli the whole thrombus became detached. In the others farger or smaller fragments of thrombs were left to the peripheral veins

Death rarely occurs instantly in obstructive lung embolism In most cases there is sufficient time after the onset of the first attack to allow a Trendelenburg operation

In conclusion the authors state that as we have as yet no knowledge of the cause of thrombo-embolic disease at is impossible to suggest a procedure for its prevention When once it acts in nothing can be done to arrest its course. The one means of saving life is the Trendelenburg operation

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Roth P Oxygen Therapy Anes & Anal 1929 vm

Lack of a sufficient supply of oxygen causes pro gressive damage to the central nervous system heart and other organs The injurious effects of anovermia may soon become arreparable. Even though the cyanosis and respiratory and circulatory disturbances can be improved the condition may terminate tatally if it is treated too late

her ous tissue is the most easily damaged by in sufficient oxygen Cardiac muscle 15 more resistant Three types of anoxemia are described

The anoxic type This is found in pulmonary conditions interfering with respiratory exchange in the lungs such as pneumonia severe bronchitis asthma and emphysema

2 The stagnant type This is due to circulatory duturbances especially of cardiac origin

3 The anamic type This is due to a lessened capacity of the blood to carry oxygen caused by a low harmoglobin content a low red cell count or fixation of the hæmoglobin by carbon monoxide

The symptoms of anoxemia vary according to the suddenness and completeness with which the supply of oxygen to the tissues is cut off. The sudden cutting off of oxygen causes loss of consciousness convulsions and death in a few minutes. A less sudden shutting off causes byperpacea a rapid and feeble pulse and impairment or loss of consciousness In these conditions artificial respiration is indicated When the deficiency of oxygen occurs gradually the hreathing is often of the periodic type the mental faculties are impassed and the patient suffers from hausea vormting headache and diarrhoea

Oxygen can be administered by means of a rubber balloon nasal tube mask bed tent or oxygen therapy chamber

In the induction of anæsthesia safety depends in large measure upon the prevention of anoxamia or asphyxia by the timely use of oxygen and carbon dioxide EARLE I GREEVE M D

Magliulo A The Effect of Periarterial Sympa thectomy on the Taking of Autoplastic Skin Grafts (La simpatectomia penartenosa sul man cato attecchimento degli innesti cutanei autoplas tici) Sperimentale 1928 Ixvii 685

In experiments on rabbits burns of the skin were produced with the cautery and sutoplastic skin grafts were applied from ten to thirty days later Penartenal sympathectoms was done before at the time of or after the grafting The penartenal simpathectomy was found to have a good effect on the taking of the grafts. It exerted such an effect not only on the side on which it was performed but also on the opposite side. On the side on which it was performed the grafts took early and completely and showed regeneration of the superficial and deep cells of the enidermis the adnexa and the dermis Other conditions being equal the grafts took soon est and most completely when the sympathectomy was done before or at the time of the grafting. The chief effect of the sympathectomy was improvement in the blood supply of the graft and its bed. The taking of the graft depended also upon a good technique strict asensis and rocasures to prevent drying of the superficial layers of the cutis AUDREY G MORGAN M D

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Arrivat The Treatment of the Wound in Tetanus Cure of a Severe Case of Postoperative Tetanus by Amputation (A propo du trastement de la place tétampène guérison par amputation d'un cas grave de tétanos post opératoire) Bull el mem Soc not de chir 1928 hiv 1971

Arrivat emphasizes the necessity of treating a wound that has given rise to tetanus Such treat ment is too often regarded as useless. The local application of antitoxin or even amputation is a valuable adjunct to the intravenous and intraspinous

treatment The following illustrative case is cited A man twenty one years old was operated upon for a rapidly progressing tuberculous osteo-arthritis of the ankle joint The operation consisted in re section of the astragalus curettage of the calcaneum and the articular surfaces of the tibia and fibula and excision of the fistulous tract The postoperative course was normal up to the eighth day when trismus and rigidity of the neck developed Within the next twenty four hours the typical facial expression of tetanus appeared together with spasms of the facial and cervical muscles With the onset of these symptoms intraspinous and intravenous treat ment was instituted. As the spasms became more severe and more generalized they were combated with inhalations of chloroform During the ensuing eleven days the condition gradually became norse and a fatal issue seemed inevitable. At this point an amputation through the middle of the leg was per formed and antitoxin was injected into the nerves and applied to the wound which was left open. The next five days saw progressive improvement. An unexplained rise of temperature however led the surgeon to discontinue the injections of serum. The temperature fell to normal and uneventful recovery resulted ALBERT F DE GROAT M D

Dogliotti A M i Blood Transfusion in the Treat ment of Surgical Infections (La trasfusione di sangue nel trattamento delle infectori chiturgiche) irch ital dichir 1928 XXII 200

Doghotti reviews twenty-eight cases which show that in most surgical and medical infections trans fusion of blood is a most effective method of treat ment because of its stimulating action on metab olism its beneficial effect on the secondary animus the blood pressure and the circulation and its activation of the organic defenses against the bacteria. The most important subjective effects noted after transfusion are a feeling of relief a decrease in the general restlessness improvement of the appetite and a general feeling of well being The objective signs are a lowering of the temperature curve (in some cases there is a temporary rise for the first few hours) improvement in the rate and strength of the pulse and of the respiration a decrease in the leucocyte count after about twenty four hours and a favorable reaction at the site of the in fection within twenty four hours Except in cases in which the infection is extremely virulent or the patient s general resistance is very greatly decreased the treatment brings about a progressive and permanent improvement with rapid resolution of the general and focal findings. The bactericidal and phagocytic power of the blood and to a less degree the opsonic power of the serum are increased. It is very prohable that there is also improvement in the general activity of the cells and humors of the body

an index of which is furnished by the bactericidal power of the blood

In connection with transfusion all the other therapeutic measures which are indicated in the case should be employed. Transfusion is a purely auxiliary treatment and does not contra indicate the use of other therapeutic measures.

Only pure blood should be transfused It should be given rapidly and with a proper technique is a rule not more than from 200 to 300 c cm should be used In very serious cases the transfusion should be repeated every twelve twenty four or forty eight hours In mild cases one transfusion is enough If in some cases there are reasons why the trans fusion cannot be repeated as much as 500 c cm may be given at once. In cases with very defective or culation and heart weakness or intense general intoxication it is advisable to withdraw an amount of blood equal to that which is to be transfused. In order to increase the efficacy of transfusion it is advisable or almost necessary to give large quanti ties of physiological salt solution subcutaneously or intravenously to increase the amount of circulating fluid atimulate the metabolism and furnish a vehicle for the toxic and septic products in the organism Indirect transfusion is to be preferred as it gives the maximum independence hetween donor and recipient makes transfusion possible without surgical exposure of the vein and therefore with slight traumatism and allows repetition as often as ACDREY G MORGAN MD necessar\

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Bass F and Jaroschka L Increasing Resistance Against Streptococcus Sepsis by Roentgen Ir radiation Experiments on Animais (Resistanz steigerung gegen Streptococcensep is durch Roent genstrahlen im Tierversuch) Strahlentherapie 1928 **х**туш с68

In experiments on rabbits the authors attempted to determine whether roentgen irradiation will protect against streptococcus sepsis. To prove that the tays act not by an effect on the coccus but by activating the organic defense the rays were applied in the first experiments before the animals were in ferted

Local stradiction was chosen in order most closely

to approximate the conditions in man The sepsis was produced by the intravenous in

jection of from o 5 to 1 o c cm of a twenty four hour ascites bouillon culture of streptococca Normal animals succumbed to it within from one to four

The rays were centered on the middle third of the abdomen the rest of the body being covered The irradiation was given from twelve to fourteen hours before the infection

After the infection at equal intervals in the cases of both the irradiated and the control animals a cem of blood was withdrawn from the jugular vein and with fluid agar was poured onto a plate for

counting of the micro organisms

In these experiments it appeared that the pre liminary irradiation considerably increased the resistance to the infection Control animals succumbed to the sepsis in from one to four days whereas animals that had received preliminary irradiation survived for from five to fourteen days and did not show symptoms until three days before death

Continuous counts of the micro organisms showed that in the irradiated animals the organisms dis appeared rapidly from the blood stream normal animals the initial decrease in the number of micro organisms was followed by a rapid and marked increase In the blood of the irradiated animals the micro organisms were distinctly fewer and some

times disappeared entirely The findings seemed to indicate that the increased resistance obtained was due to increased activity

on the part of the reticulo endothelial apparatus similar to that occurring in immune anima Further investigations with Weil's plate tests of bactericidal power showed that the increase in re sistance coul I not be ascribed to an increase in the

bactericidal power of the serum To determine whether roentgen irradiation acti vates leucocytes in contact with the streptococci tradiation experiments with leucocytes in rife were undertaken No appreciable difference in the phago cytic strength of irradiated and unirradiated leuco cytes was noted

It was found possible also to increase the resist ance to infection of animals already infected. Ani mals infected by intravenous injection and irradi ated five hours after the infection lived five or six days longer than control animals. In the normal animal almost all of the micro organisms bad passed out of the blood stream into the reticulo endothelial apparatus at the end of five hours and after multi plying there reentered the blood stream in vastly increased numbers In the immune animal the micro organisms were held fast and destroyed in the reticulo endothelium. The action of irradiation an plied at a time when the micro organisms have been taken up by the reticulo endothelium is a general

activation of the reticulo endothelial system Further experiments with the object of demon strating increased activity of the reticulo endothe hum with Adler and Reimann's function test gave

In experiment which it was hoped would throw light on the action of the roentgen rays on the isolated circulating blood was also unsuccessful

To determine the distant action of the rays on non irradiated cells a rabbit was irradiated as before (over the abdomen) and fourteen hours later a comof a filtrate of a bouillon culture of streptococci were injected into the marrow of the tibia. Six hours later a streak preparation of the bone marrow was made and stained by the Giemsa Romanowsky method A control experiment was carried out with a non straduated animal. The result showed clearly more phagocytic activity of the histocytes and leu cocytes in the irradiated animal than in the non irradiated anima! GRACERT (G)

Overgaard A P Roentgenograms of the Sphenold and Ethmoid Sinuses The Oblique Method Arch Otelaryneel 1028 VIII 663

Atthough roentgenograms of the paranasal sinuses taken in the frontal position Water's position and the lateral position yield a certain amount of infor mation relative to the sphenoid and ethmoid sinuses they are unsatisfactory because of the inevitable superposition Films made in the oblique position as described by Rhese in 1910 project these sinuses into the orbital cavity and permit separate visualiza tion of each of them A modification of this method used by the author is described in detail The article contains roentgenograms of dry skulls with the sinuses filled with opaque material to show the location of the various sinuses. The value of stereo scopic exposures is emphasized

RADIUM

Regaud C Radium Therapy of Cancer at the Radium Institute of Paris Am J Rocatgenol,

The author recognizes that radium and \text{ ray therapy eannot be divorced from surgery in the teatment of cancer. Honever he discusses only radium therapy chiefly because of the rapid prog rests that has been made in this type of treatment as the result of a better understanding of cancer and the action of irradiation upon it increased expenence in irradiation improvement in the technique and the greater quantity of radium available.

By cure the author means freedom from all evidence of disease for a reasonable length of time depending upon the location of the fesion for example three years in cancer of the skin and mouth five years in cancer of the three years in

eaneer of the breast

The statistics of the Radium Institute of Pans are based upon the total number of cases treated without reference to the technique employed but the cases are earefully classified from the anatomizat standpoint. Complete statistics are available for only cancer of the cervix cancer of the skin and eanerer of the mouth

The technique of radium therapy is of four types in Intracavity irradiation, the introduction of radium into the natural cavities or channels of the

body
2 Interstitial irradiation in which various
radium preparations are introduced directly into
the neonlasm

3 Contact or surface irradiation in which the radium is placed in contact with or a very short distance from the neoplasm

distance from the neoplasm
4 Irradiation at a distance from the neoplasm

and through the skin
Intracavity irradiation has been practically aban
doned except in cancer of the uterus. Its use in the
treatment of cancer of the prostate rectum croo
phagus laryan upper air passages and alimentary
tract has given poor results.

Of 678 cases of cancer of the cervix treated in the period from 1919 to 1926 610 were used for sta fistical purposes. In this group a cure was obtained in so per cent. All were treated with radium or with radium and the \ ray The incidence of five year cure steadily increased from 8 per cent in 1919 to 26 per cent in 1922 Of the 171 patients in whom the lesion was in the early stages of were free from disease for from one to mine years A five year cure was obtained in 33 3 per cent Of 192 borderline cases 176 were used for statistics In this group the treatment resulted in freedom from the disease for from one to nine years in 37 5 per cent and a five year cure in 25 8 per cent Of the 407 advanced cases 373 were used for statistics. In this group freedom from disease for from one to nine years was obtained in 21 7 per cent and the incidence of five year cure was 17 7 per cent

By interstitial radium therapy combined with radium surgery is meant (1) the permanent intro duction into the fissues of minute radon-containing capillary tubes made of glass gold or platinum and (2) the temporary introduction of metallic needles a procedure called radium puncture. The author believes that in the future radium needles will be used in preference to radon seeds whenever surgery is necessary to gain access to the neoplasm Radium needles are small platinum tubes 10 mm in length with a wall thickness of from o 5 to 2 0 mm They are introduced by means of a trocar and stylet as practiced by Mallet Those used at the Radium Institute of Paris have a wall thickness of 0 5 mm and hold end to end ; or more cells 15 mm in length They base a double eye accommodating a salk threads one of which is used for suturing the needle to the skin or mueous membrane and the other of which is used for its removal. The dosage given by these needles varies between 0 5 and 0 7 me destroyed per linear centimeter. These needles are easily manipulated inserted directly into the tissues without the aid of a trocar and readily spaced All betra rays are filtered out by the

platinum Cancers of the tongue and floor of the mouth are treated by radium puneture Those of the anterior half of the dorsum and the border of the tongue yield more readily than those of the posterior half of the tongue and the floor of the mouth In eases of the former type a complete cure has been obtained in 26 4 per cent and a cure of the primary lesion in 24 per cent The primary lesion was therefore cured in 5r per cent In cases of the latter type a complete cure has been obtained in 22 per cent and a cure of the primary lesson in 33 7 per cent Accordingly & complete cure has been obtained in 21 per cent of the total number of cases of cancer of the tongue and the floor of the mouth and a cure of the primary fesson in 44 per cent Only 20 per cent of the cases were operable when treated In the treatment of malignant glands radical block resection of the area is followed by radium therapy at a distance from the

skin Radium puncture is not employed Radium surgery to obtain easier access for the insection of radium is practiced in the treatment of cancer of the nasal fossie and maxillary sinuses. A cure was obtained in 6 of 18 cases of these condi-

tions
Surface, adding therapy has been supplained by
the place and on uncrease radium bearing tubes of
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there are no modeled applicators made of Coulom
has paste (beenwar paraffin and powdered wood)
which are expectable prepared in each instance it is
possible to maintain the proper distance between
the radium and uneven surfaces of the body
that type of treatment platinum there is no standard to the place
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tree as obtained in 98 per cent, and in the total number of cases of operathe cancer of the skin a cure was obtained in 92 per cent. In 22 cases of doubtful operability without cancerous adenopathy a cut of the primary lesion was obtained in 92 per cent. and in the total number of cases of doubtful opera billy a cute was obtained in 72 per cent. In moper this y active was obtained in 72 per cent. In moper the cases a cure was obtained in 72 per cent.

Cancers of medium depth such as those of the playmr layra, cervical glands and ingunal guids are hest treated by means of moulds holding the ridium from 100 fc m from the skin depending upon the depth of the area to be treated. In the Ridium Institute of Paris radium these having a filtration of 1 mm of platnam are fived to the upper strates of the sax moulds which hold them in place votes the sax moulds which hold them in place for findium protected laterally by 5 or 6 mm of lead and covering an area of from 100 to 200 mm of lead and covering an area of from 200 to 200 mm of lead and covering an area of from 200 to 200 see the place for from eight to ten daws without crusing much discomfort. When heavy moulds are used the applications are intermittent.

In radium therapy at a distance special applica tors are used to hold from several hundred mills grams to 4 gm of radium from 10 to 15 em from the skin The applicator used at the Radium Institute of Paris carries 4 gm of radium filtered by 1 mm of platinum at a focal skin distance of 10 cm and irradiates a surface of approximately 150 sq cm This apparatus is employed in the treatment of earcinoma of the cervix with extensive pelvie inva sion From 6 to 8 portals of entry are used and 100 per cent of the epidermicidal dose is delivered The epidermicidal dose is defined as that amount of irradiation which is necessary and sufficient to destroy only the epidermis The 4 gm of radium in the applicator are distributed in 80 tubes each con tuning 50 mgm. The tubes are arranged in 4 groups of 20 each at the 4 angles of a flat rectangular box made of hrass which measures 135 hy 110 mm In advanced cancer of the cervix from 50 to 60 hrs of irradiation with this applicator through from 6 to s portals of entry are delivered over a period of from two to three weeks

Careful comparisons of the biological effects of radium as compared with the N ray have been made. The author helieves that from the biological standpoint radium is superior to the N ray. From the point of view of hiology he draws the following conclusion:

1 Equal irradiation of the diseased area and filtration play an important part when homogeneous radiation is attempted

2 It a preferable to use selected cytolethal radiumtherapy that is penetrating irradiation purified by filtration. Such irradiation is able to destroy adioesnative cells without causing serious damage to normal structures.

a definite limit

4 If sublethal doses are applied at auflicient betevals over a long period of time normal tissues

are sensitized and cancer cells are immunized to irradiation

The radiosensitivity of the basal cell layer of

cancer cells should be utilized when the dose is planned since this layer is more sensitive than the

generations which will follow

The author states that much of the progress in the radiotherapy of cancer is attributable to recognition of the unequal radiosensitivity of different cancers the direct and indirect action of the rays and the superiority of the biological action of ramma rays over the V ray

The majority of epitheliomata arising from stratified epithelium are cured by irradiation therapy provided (4) the cancer has not heen immonized by previous irradiation (treatments (2) deep infection is absent (3) the lesion is not so deep and extensive as to necessitate the irradiation of too great aamount of discused tissue which favors general radio intoxication and (4) the anatomical location of the tumor does not necessitate a severe irradiation

reaction or permit visceral perforation

Sterhization of lary ngeal cancers is easy provided in nectosis of the cartilaginous portion does not present a serious complication. Cancer of the esophagus is of deep that its treatment is difficult. Endermoid cancer easy of access is readily cured in the absence of local complications even when it is view extensive and frequently when it is inoperable. Endermoid carcinoma of the cervit yields well while adeno carcinoma of the rectum is resistant to selective redobterany.

Biologically the problem of the direct and indirect effect of irradiation on cancer cells is complicated The author favors the theory of the direct action of the rays upon the cells While he admits that there may be additional indirect action from changes aris ing in the stroma he helieves that the principal ac tion is direct. He ealls attention to the fact that in the irradiation of normal tissue histological changes cannot be noted in vessels connective tissues and leucocytes preceding an effect upon the cells dermicidal dosage is a better criterion than erythema dosage as the former destroys the epidermal cells whereas the latter causes a functional phenomenon It is believed that normal and neoplastic tissue undergo fundamentally the same processes under The varying responses of different readiation cancers are inherent in the different radiophysi ological properties of the neoplastic tissue

In the summary of his article the author draws the following conclusions

1 Progress can be judged only from statistics
2 Cavity radium therapy cures with regularity
only epidermoid cancer of the cervit which has not
extended beyond the uterus

3 Homogeneous irradiation by interstitial meth ods is best obtained by radium puncture with the use of removable platinum needles

4 Surface radium therapy with the use of wax moulds gives excellent results in epithelioma of the

- 5 The radiosensitivity of cancers varies from the susceptible epidermoid structures of the cervix to the resistant adenocarcinoma of the rectum
- 6 The essential phenomenon in treatment with irradiation is a direct action on the cancer cell

 7 Gamma rays from radium are undoubtedly
- superior to the \ rays from the biological stand point

 The article contains numerous tables and illustra
- tions and a fairly extensive bibliography

 A LAMES LARKIN M D

MISCELLANEOUS

Rollier A Sun Treatment of Peritonitis (Die Son nephehandlung der Peritoniti) Extrapulmonale Tuberk 1928 II 129

Tuberculous pertonuts is a secondary tuberculous manifestation. Hence its development indicates that the patient's immunity has been broken down at all possible means must be used to and the body in its fight against the infection. Duth local and high altitudes is of more benefit, than any other form of treatment. The exposure to the sunlight must be managed very carefully. Rollier proceeds very

slowly and cautiou ly and varies the treatment in the different forms of the condition. Most of his cases are of the chronic type. Some of them are of the exudative and some of the dry variety. Occasionally especially after operation there are suppurative or faceal fistule which are extremely un-

In addition to the sun treatment attention must be paid to the patient's nutrition. The diet should consist mainly of milk farinaceous foods easily digested vegetables and well cooked fruits. The

pleasant and deleterious to the patient

digestion must be watched with great care.

In the period from 1922 to 1923 Rollier treatel muet; five cases of tuberculous perstonates. A cure was obtained in 65 per cent and improvement in 27 per cent. In 5.2 per cent the condition remained unchanged and in g. g. per cent death resulted from such conditions as cardiac insufficiency philability and edoctary more conditions as cardiac insufficiency philability and edoctary more consistent of the conditions and edoctary to tuberculous four intestinal tuberculous six visceral or bone tuberculous and such read fistule. The average duration of treatment was from ten to twelve months. The longest time was three years. Rollier considers win treatment the ideal therapy for tuberculous per treatment the ideal therapy for tuberculous.

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Waters C. A. Colston J. A. C. and Gay L. N. Colloidal Lend with Roentgen Therapy in Malignant Disease J. tm. 1f. 1sr. 19.9 v.cii. 14. Ulmann II. J. Colloidal Lead and Irradiation in Cancer. J. 1m. 1f. 1sr. 1929 v.cii. 18

ULLWAYN uses the colloidal lead phosphate in instancous cancer therapy, while WATERS Cost, stroy and GAY employ colloidal lead prepared after the method of Bell of England and Wood of New Jork City. The advantage of the lead phosphate solution is that it is more stable easier to administer and less form.

MATEAS COLSTON and GAY report the results of field and montecon therapy in seven cases of made name. Four of the patients are dead and three are dung. However although in all of the cases the condition, was very advanced improvement was noted following the treatment. In one case a lung neclassian disappeared. In the majority of the cases there was stipping of the red blood cells following their madation and in a few lead know nere seen only the game. In two cases perspheral neutrits de

ULIVAN gives no statistic, but reports his general impressions from the treatment of first cases with solid lated and irradiation. All of the cases were advanced that and irradiation all of the cases were advanced that solid lated the method parts it as unfair to attempt to railing the method parts of the parts of the patients of the parts of the patients of the p

Soland A Costolow W E and Meland O N Colloidal Lead Combined with Nays and Radium in Treatment of Cancer J W 10 0 xcii 104 cm.

NOT L C Lead Therapy J tm W is 1929

Solland Costolow and Meland report a series of thrit one cases of inoperable carcinoma which were therefore the interest of the control of th

types of malignant tumors who were treated with

colloidal lead with or without \ ray irradiation four are at present wholly free from physical signs of their disease but the time which has elapsed since the disappearance of the tumors is too short to ner mit the assumption that a cure has been obtained Several other nationts were benefited temporarily Thirty four patients died as the result of the progress of the neoplasm or from an extraneous lesion. In a series of sixty other cases neither death nor serious complications resulted from the use of lead twenty cases the patient was so cachectic or the neoplasm so large that it was necessary to stop the use of lead before giving the amount which might have been expected to cause improvement. No selection of patients was made except that those who were moribund and those with advanced renal lesions nere excluded. The combination of lead with the ray was often found more effective than lead or the \ ray alone

The results in the cases reviewed confirm in a general wav Bell's finding that in a few instances of inoperable and advanced lessons arrest of the disease may be obtained by the combined administration of lead and the X rays JOHN H GARLOGE M D

SURGICAL PATHOLOGY AND DIAGNOSIS

llowes E L Soos J W and liarvey S C The

The fundamental process of the healing of wounds called cactization or fibrous is only qualitatively familiar as methods of measurement and accurate data applicable to this problem are either not available or have not been employed. The empire, howledge while perhaps sufficient for most pur poses might well be rendered more precise and scientific if data could be obtained which could be

subjected to mathematical analysis

Attempts in a limited way have been made to obtain such data. Carriel in 1910 found that there is a quescent period of from one to fix edays between the infliction of a surface wound and the beginning of the diministron in its area. that the diministron is caused by contraction of the granular bed and is soon overlapped by the decrease in size as a result of the ingrowth of epithelium from the edges of the wound and that the larger the area the more rapid the epidermization that is the smaller the wound the more rapid the ingrowth of epithelium. Span and Loch in 1910 arrived at the same Span and Loch in 1910 arrived at the same

conclusion without knowledge of Carrel's work Carrel and Hartmann then constructed graphs of the rate of the reparative process with the same general conclusion. Du Nouly working with Carrel devel oped a mathematical equation establishing a normal curve for the healing of a surface wound Having established a curve representing the normal expectancy of healing they studied the latent or quiescent period which in the dog lasts from five to seven days and then ends abruptly The contraction period starts with a maximum velocity. As long as the wound has complete protection the latent period is prolonged whereas the introduction of irritants serves to increase it even below the normal time Carrel came to the conclusion that the contraction phase is initiated by an external factor Clark using the curves and methods of Carrel and Du Nouy found that a protein that shortens the latent period and a fat diet lengthens it and that the rates of contraction and epidermization are unaffected by diet Ebeling using the same equation found that in the alligator a rise of 10 degrees C increases the rate of healing of wounds twofold

The authors simplified the problem by eliminating the factor of epidermization. They produced messed wounds in the skin fascia stomach and intestine of dogs and sutured them immediately. At certain time intervals the tissue containing the wound was removed the strength of the wound was determined and its tensile strength was tested on a Scott

thread testing machine

The experiment on skin the sutures being removed before the test showed that the tensile strength expressed in grams per centimeter width of the wound remained near zero for four days then rapidly increased to 800 gm and then gradually rose to the maximum strength of the wound in the skin 2 600 cm on about the fourteenth day

In the experiment on fascia which was autured with No co twenty day chromic catgut and No 3 twenty day chromic catgut the composite graph showed a quiescent period up to the fifth day during which the strength was that of the holding power of the sutures The point at which the sutures tore out at the points of insertion was less than 700 gm per centimeter of incision. The normal strength of the fascia wound a 400 gm was reached at about the fourteenth day

For the wound in the muscle the sartonns of the dog was used because of its minimal and constant thickness. The wound edges were approximated with interrupted No oco plain catgut sutures The quiescent period was about six days and the tearing strength of the suture very low The normal strength of the muscle wound I 800 gm per cents meter of mersion was reached on about the twelfth day

In one group of experiments on the stomach a simple incision through the anterior stomach wall

was closed with three layers of No 000 plain catgut It is known that catgut of this size disappears in forty eight hours Consequently the strength during the quiescent period of three days was found to be zero. The normal strength of the stomach wall wound 1 800 gm per centimeter of incision was reached on the twelfth day. In another group of experiments the incision was closed with No o twenty day chromic catgut During the quiescent period of from four to six days the strength was represented by the holding power of the sutures 700 gm per centimeter of incision at which point they tore out of the tissues The return to normal was neither so complete nor so rapid as in the pre ceding experiment as the average normal strength of the stomach wall wound was only 1 200 gm per centimeter of incision on the twelfth day suggesting that the presence of large amounts of suture material interferes with healing of the wound

The authors state that the lag penod has a practical significance as it is during this period of from four to six days that the strength of the wound must be artificially re inforced by the use of sutures The period of fibroplasia is equally important for it as during this period that the strength of the wound is developed up to a maximum point at which it remains for some time. The rapid ascent of the curve from the sixth to the tenth day as expressed in tensile strength has great practical agnificance as regards the type of suture used and the stress

placed on the wound The authors summarize the results of their experi

ments as follows It has been found possible to determine the rate of healing of the simple incised wound in the

skin fascia muscles and stomach 2 The tensile strength of a healing wound is a

function of the fibroplastic process

3 A curve expressing this shows a lag period of from four to six days and then a phase of fibroplasia rising sapidly at first and then more slowly as it

approaches the maximal strength of the wound 4 The latter point is attained in from ten to

fourteen days

In the discussion of this report BARTLETT cited the work of klumpski on the intestine after end toend anastomosis which showed that the normal pressure the intestine will stand drops about half for about two days after the anastomoses and con tinues to drop until the seventh day when it gradually rises to normal on about the filteenth day Klumpski attributed the lack of holding power of the sutures to weakness of the granulation tissue that was deposited about the suture material

J EDWIN KINKPATRICK, M D

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oped a mathematical equation establishing a normal curve for the healing of a surface wound Having established a curve representing the normal ex pectancy of healing they studied the latent or quiescent period which in the dog lasts from five to seven days and then ends abruptly The contraction period starts with a maximum velocity. As long as the wound has complete protection the latent period is prolonged whereas the introduction of irritants serves to increase it even below the normal time Carrel came to the conclusion that the contraction phase is initiated by an external factor Clark using the curves and methods of Carrel and Du Nouy found that a protein diet shortens the latent period and a fat diet lengthens it and that the rates of contraction and epidermization are unaffected by diet Ebeling using the same equa tion found that in the alligator a rise of to degrees C increases the rate of healing of nounds twofold

The authors simplified the problem by eliminating the factor of epidermization. They produced incised wounds in the skin fascia stomach and intestine of does and sutured them immediately. At certain time intervals the tissue containing the wound was removed the strength of the wound was determined. and its tensile strength was tested on a Scott

thread testing machine

The experiment on skin the sutures heing removed hefore the test showed that the tensile strength, expressed in grams per centimeter width of the wound remained near zero for four days then rapidly increased to 800 gm and then gradually rose to the maximum strength of the wound in the akin 2 600 gm on about the fourteenth day

In the experiment on fascia which was sutured with No oo twenty day chromic catgut and No 3 twenty day chromic catgut the composite graph showed a quiescent period up to the fifth day during which the strength was that of the holding power of the sutures. The point at which the sutures tore out at the points of susertion was less than .oo gm per centimeter of incision. The normal strength of the fascia wound 2 400gm was reached at about the fourteenth day

For the wound in the muscle the sartorius of the dog was used because of its minimal and constant thickness The wound edges were approximated with intercupted No ooo plain catgut sutures The quiescent period was about six days and the tearing strength of the suture very low The normal strength of the muscle wound 1 800 gm per cents meter of meision was reached on about the twelfth

In one group of experiments on the stomach a simple incision through the anterior stomach wall

was closed with three layers of No ooo plain catgut It is known that catgut of this size disappears in forty eight hours Consequently the strength during the gunescent period of three days was found to be The normal strength of the stomach wall wound 1 800 gm per centimeter of incision was reached on the twelfth day. In another group of experiments the incision was closed with No o twenty day chromic catgut. During the quiescent period of from four to six days the strength was represented by the holding power of the sutures 700 gm per centimeter of incision at which point they tore out of the tissues The return to normal was neither so complete nor so rapid as in the pre ceding experiment as the average normal strength of the stomach wall wound was only 1 200 gm per centimeter of incision on the twelfth day suggesting that the presence of large amounts of suture material

interferes with healing of the wound The authors state that the lag period has a practical aignificance as it is during this period of from four to six days that the strength of the wound must be artificially re inforced by the use of sutures The period of fibroplasia is equally important for it is during this period that the strength of the wound is developed up to a maximum point at which it remains for some time. The rapid ascent of the curve from the sixth to the tenth day as expressed in tensile strength has great practical significance as regards the type of suture used and the stress placed on the wound

The authors summarize the results of their experi

ments as follows 1 It has been found possible to determine the rate of healing of the simple incised wound in the

skin fascia muscles and stomach 2 The tensile strength of a healing wound is a

function of the fibroplastic process

3 A curve expressing this shows a lag penod of from four to six days and then a phase of fibroplasia rising rapidly at first and then more slowly as it approaches the maximal strength of the wound

4 The latter point is attained in from ten to fourteen days.

In the discussion of this report Berrierr cited the work of Klumpski on the intestine after end toend anastomosis which showed that the normal pressure the intestine will stand drops about half for about two days after the anastomosis and con tinues to drop until the seventh day when it gradually rises to normal on about the fifteenth day Klumpski attributed the lack of holding power of the sutures to weakness of the granulation tissue

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